

COMMONWEALTH AGRICULTURAL BUREAUX

SB 599 R38 V.68 1980 Review of applied entomology

ABSTR NO. 030 Series A
Agricultural



JUL 9 C.C.

COMMONWEALTH INSTITUTE OF ENTOMOLOGY

Scientific Information Officers: Mrs. M.A. Greiff, B.A., Miss S.C. Huff, B.A., Miss J.J. Larkham, B.A., T.S. Robertson, B.Sc., G.A. Viney, M.Sc.

Outside Abstractors: R.F. Avery, M.A., Miss L.E. Cobb, B.A., R.G. Fennah, Sc.D., M.A., A.I.C.T.A.

AUTHOR INDEX

al, Y. A. I. Abdel- 680, 761, 2634, 4360, 4361 alto, A. 4853 bagiu, G. 105, 106 bakumov, A. M. 3863 bagiu, G. 105, 106
bakumov, A. M. 3863
bas, A. S. 4343
bassi, M. 1470
bassy, M. 3816
bbas, M. S. T. 834, 835, 836
bbas, S. A. 477
bbassy, M. 222, 5718
bbassy, M. A. 487, 3817
bbassy, M. A. 487, 3897
bball-All, M. 5889
bdel-Aal, Y. A. I. 680, 761, 2634, 4360, 4361
bdel-Fattah, M. I. 4328, 4330, 4334, 4338, 4352, 4353, 4354, 4355
bdel-Hak, T. 870
bdel-Kader, M. M. 4112, 6219 Abdel-Rahman, A. S. 1039 Abdel-Lateef, M. F. A. 4347 Abdel-Lateef, M. F. A. 4399 Abdel-Lattif, M. A. 3815 Abdel-Lattif, M. A. 3815 Abdel-Rahman, A. M. 3815 Abdel-Rahman, A. M. 3815 Abdel-Rahman, A. S. 1039 Abdel-Rahman, H. A. 6219 Abdel-Rahman, H. A. 6219 Abdel-Wahab M. Ali 1292 Abdin, M. I. 2536 Abdul-Wahab, W. 4335 Abdul-Wasih, A. M. E. 477 Abdul-Wahab, W. 4335 Abdul-Wahab, W. 4335 Abdul-Masih, A. M. E. 477 Abdul-Wahab, W. 4335 Abdul-Wahab, W. 4335 Abdul-Masih, A. M. E. 477 Abdul-Wahab, W. 4335 6219 Abdulla Koya, K. M. 3052
Abdurahiman, U. C. 1881
Abidogun, A. 1682
Ables, J. R. 1045, 5725
Abo-El-Amayaem, M. 4394
Abo-Elgar, M. R. 681
Abo-Elghar, M. R. 223, 682, 4065, 4381, 4382
Abo-Ghadir, M. F. 4356
Abo-Korah, S. M. 2478
Abou-Awad, B. A. 393, 403, 1769, 4596
Abou-Donia, M. B. 4359
Abou-Elamayem, M. M. 3821
Abou-Ghadir, M. F. 4046
Aboul-Naga, A. M. 5722
Aboul-Zahab, A. 4344, 4345
Abraham, C. C. 284, 1366, 1942, 1996, 4712
Abraham, V. A. 360
Abrahamson, L. P. 2070
Abrams, R. I. 6194
Abreu, J. M. 4087
Abtellung für
Pflanzenschutzmittel und Abteilung für Pflanzenschutzmittel und Anwendungstechnik, Biologische Bundesanstalt für Land- und für Land- und Forstwirtschaft 1687, 1688, 1689, 1690 Abu Bakar, A. K. B. 431 Abu Elamayem, M. 6717 Abu-Elamayem, M. M. 5983 Abul-Ela, S. M. 3149 Abul-Naga, A. M. 5721 Abul-Nasr, S. E. 603, 3149, 5129 Abushama, F. T. 1837 Abushama, F. T. 1837
Académie d'Agriculture de France 5492
Academy of Sciences of the Lithuanian SSR 5386
Aceves-Piña, E. O. 4830
Achterberg, C. van 3245
Acorn, T. 4161
Adam, D. 5668
Adam, G. 4583

Adam, H. 628 Ádám, L. 4852 Adams, J. R. 614 Adams, R. G. 1453, 2089, 4113 Adashkevich, B. P. 3865 Addae-Mensah, I. 1815 Adashkevich, B. P. 3865
Addae-Mensah, I. 1815
Addicott, J. F. 4274
Addor, R. W. 657
Adeishvili, L. G. 2966
Adem, E. 3124
Adenaike, B. O. 1007
Adenuga, A. O. 1685
Adesiyun, A. A. 3883
Adesuyi, S. A. 3624, 3651, 3661, 6648, 6650
Adhami, N. 1537
Adimorah, E. N. 1006
Adler, J. 4808
Adlerz, W. C. 6452
Adsule, V. M. 6557
Aerts, J. 221
Aeschlimann, J. P. 3446
Afaf Ali, K. 1154
Afaff, F. A. 4397, 4401
Afzal, M. 1774
Agafitei, N. J. 6028
Agafonova, Z. Ya. 1418
Agarkov, V. M. 296
Agarwal, H. C. 3749
Agarwal, N. 3749
Agarwal, N. 3749
Agarwal, R. A. 1552, 1553, 2543
Agarwal, B. K. 2820
Agee, H. R. 2701 Agarwala, B. K. 2820 Agee, H. R. 2701 Aggrey, W. Godfrey-Sam-1532 Agosin, M. 724
Agrawal, K. C. 3924
Agrawal, R. K. 5816
Agricultural Development and Agricultural Development and
Advisory Service, United
Kingdom 1757, 1758, 4721
Agricultural Research Council,
United Kingdom 2652
Agricultural Research Division,
Swaziland 2159, 2160
Agricultural Research Institute,
Cyprus 1761
Agriculture Canada 4178,
5999
Ami N 6084 Agui, N. 6084 Aguiero, V. M. 883, 885, 6390 Aguilar, J. A. Sifuentes 1050 Aguirre Castillo, C. 5179 Aguirre Rascón, J. 2307 Aguirre Rascon, J. 2307
Agus, S. 3934
Agyen-Sampong, M. 6417
Aharoni, Y. 3618, 5826, 6641
Ahearn, J. N. 4275
Ahlgren, G. 1236
Ahmad, A. 1537
Ahmad, I. 1774, 4281, 4522, 4597, 5301
Ahmad, M. 902, 1358, 4012, 5000, 5268
Ahmad, N. 6217, 6251
Ahmad, N. 6217, 6251
Ahmad, T. 5382
Ahmad, Y. M. 3818
Ahmad, Y. M. 3818
Ahmad, Z. 495, 4072
Ahmed, A. 5227
Ahmed, K. 2379 Ahmad, Z. 495, 4072
Ahmad, A. 5227
Ahmed, K. 2379
Ahmed, M. 4075
Ahmed, M. K. 2368
Ahmed, M. Y. 770, 1108
Ahmed, R. 2343
Ahmed, S. H. 1241, 3230
Ahmed, S. M. 4371
Aho, S. L. Varvio- 4967, 4968
Aiad, M. 5971
Aidley, D. J. 4847
Aina, J. O. 454
Aizawa, K. 911, 3151, 3155, 3163, 3169, 5245, 6681
Ajibola Taylor, T. 1680
Ajri, D. S. 2242
Akai, H. 6336
Akamatsu, M. 1557
Akamine, E. K. 1615, 3142

Akanbi, M. O. 1578 Aketa, K. I. 655 Akhare, M. D. 5710, 5712 Akhtar, M. S. 1895, 6660 Akiba, Y. 5245, 6681 Akibo-Betts, D. T. 3918 Akingbohungbe, A. E. 62, Akmgbohungbe, A. E. 62, 6513
Akinlade, E. E. 4663
Akman, K. 4000
Akotoye, N. A. K. 1054
Akre, R. D. 1341
Al-Ali, A. S. 477
Al-Arab, K. T. 770
Al-Neamy, I. K. 477
Alam, M. S. 3409, 3964, 6398
Alam, M. Z. 2737
Alam, S. 2384, 3409, 3964, 6398, 6424
Alam, S. K. 685
Alan, Kh. 2642
Albajes, R. 3232, 3871
Albarsanz, M. A. Pérez-4789
Alberico, S. 6243
Albertin, W. 1075
Albisetti, J. 279
Albrecht, F. O. 114, 4963
Albregts, E. 1440
Alcocer Gómez, L. 1660
Alcocer, Q. B. C. Gottwald de 1658
Alcock, J. 91
Alder G. M. 1784 6513 Alcock, J. 91 Alder, G. M. 1784 Aldrich, J. R. 4236, 5990 Aldrich, J. R. 4236, 5990 Aleksidze, G. N. 2437 Aleksiev, S. 3183 Aleksov, S. 1052 Aleshina, O. A. 626 Alexandrakis, V. 4008, 6491, 6494, 6495 Alexandresey, S. 5602, 5700 Alexandrescu, S. 5692, 5700 Alexapoulou, P. Vassilaina-1966 1966 Alfaro, R. I. 4096 Alfimov, V. A. 2699 Alford, D. V. 2000, 4547, 5053 Alghali, A. M. 3973 Ali, A. D. 3659 Ali, A. M. 224, 4339, 4379, 4402 Ali, A. M. 224, 4339, 4379, 4402
Ali, A. S. Al- 477
Ali, A. U. D. D. 4384
Ali, A. W. M. 5525
Ali, Abdel-Wahab M. 1292
Ali, K. Afaf 1154
Ali, M. 5087
Ali, M. A. 4062, 4342, 4347, 4348, 4399
Ali, M. A. M. 1431
Ali, M. H. 5650
Ali, M. I. 4394
Ali, S. M. 3708
Ali, S. S. 6660
Alicandro, A. J. 4884
AliNiazee, M. T. 1984
Alishah, A. 3769
All, A. A. 6721
All, A. Abdel- 5983
All India Coordinated Research
Project on Biological All, A. Addet 3763
All India Coordinated Researc Project on Biological Control of Crop Pests and Weeds 4693
All, J. N. 1387, 1619
Allain, T. A. 4586
Allam, S. 4362, 4363, 4375, 4376, 4377, 4388
Allawi, T. F. 5703
Allemann, D. V. 6367
Allen, A. A. 5208
Allen, A. A. 5208
Allen, G. E. 4492
Allen, J. C. 973, 2970, 5269
Allen, J. G. 3194
Allen, R. B. 5609
Allen, R. T. 3338
Allenspach, V. 1832
Aller, T. 84, 4237

Allred, D. M. 793, 794 Allsopp, P. G. 1919, 5290 Allyson, S. 5057 Almeida, A. A. de 4122, 4123, 4124 Almeida, J. R. 3288 Almeida, J. R. de 1215 Almeida, P. R. de 6498 Alnaji, L. K. 1113 Alonso de Medina, E. 1843, 5412 Alphen, J. J. M. van 6502 Alrouechdi, K. 5085 Altenhofer, E. 4627, 5746, Altinayar, G. 1389 Alvarez, C. Santiago- 2291, 3232 3232
Alvarez Cabrera, R. 3853
Alvarez Filho, A. 2015, 2421
Alvarez, Z. Pérez 3852
Alves, N. 4905
Alvo, M. 3065
Alwis, H. M. de 2395
Aly, M. I. 5986
Aly, N. M. 227, 3819, 3820
Alyoshina, O. A. 3514
Alzate, R. Navarro 6450
Amanol, H. 1264
Amaral Filho, B. F. do 187
Amargier, A. 2938 Amaral Filho, B. F. do 187
Amarguer, A. 2938
Amarguer, A. 5138
Amayaem, M. Abo-El- 4394
Ambika, B. 1808, 4712
Ambrus, A. 3206, 3312
Ames, B. N. 1160
Amin, A. H. 4333
Amin, P. W. 2020
Amitai, S. 2761
Ammar, E. D. 603, 3149, 4743, 5129, 5357
Ammar, El-D. 3394
Ammar, El-Desouky 889
Ammar, I. M. A. 681, 682
Ammari El-Idrissi, M. A. 3481 3481 Amor, R. L. 5508, 5939 Amor, R. L. 5508, 5939 Amorim Neto, L. A. 1545, 1546, 3016 Amos, T. G. 3140, 3141, 3655 Ampe, G. 216, 3809 Amphlett, M. J. 4998 Ampong, F. F. K. 4465 Amu Singh, S. 3962 Anand, R. K. 2313, 6122 Ananda Rao, L. V. 6581 Ananthakrishnan, T. N. 4946, 5468 5468 5468 Anasiewicz, A. 2469, 3517 Andaloro, J. T. 4884 Anderson, D. M. 1445, 2347 Anderson, G. W. 3084 Anderson, N. A. 3084 Anderson, R. E. 2513 Anderson, R. J. 4002, 5277, 6731 Anderson, R. J. 4002, 5277, 6731
Anderson, R. M. 6304
Anderson, R. S. 42, 2719
Anderson, W. W. 558
Anderson, B. A. 4144
Ando, K. 641, 6714
Ando, T. 3721, 5158
Ando, Y. 1254, 3385, 5366
Andrade, O. 4315
Andrade, P. 2902
André, H. 4318
Andreeva, G. I. 1560
Andrews, K. L. 3992
Anfinnikov, M. A. 1973
Angalet, G. W. 3343, 3344
Angeli, A. degli 3119
Angelova, R. 1454
Anglade, P. 880, 5315, 6368
Angood, S. A. Ba-4885
Angood, S. A. S. Ba-2477
Anikina, Z. L. 6608
Anjaneyulu, A. 1406, 5033
Anjum, Q. 1950 6731

Annecke, D. P. 26, 4209, 4450, 4480 Annia, E. 556 Annis, P. C. 2095 Ansari, M. Z. 1750, 1751, 1752, 3239 Anstee, J. H. 745, 2193, 2209, 5337 Antonin, P. 1456, 2433, 3704, 5589, 6546 Antonio, A. Q. 1029 Antunes de Almeida, A. 4122, 4123, 4124 Antunes de Almeida, A. 4122, 4123, 4124
Aoki, H. 3153
Aoki, S. 4641
Aplin, R. 726
Aplin, R. T. 5450
Aponte, L., O. 6544
Apostol, R. A. 904
Applebaum, S. W. 4773
Appleby, J., III 6223
Aquino, G. 3389, 6388
Aquino, G. B. 2902, 3396, 3400, 3903, 3904, 4509
Arab, K. T. AlArai, T. 3299
Arambourg, Y. 1779
Araujo Cunha, M. C. de 186
Arbogast, R. T. 2099, 3632, 3669, 5821, 6037
Arce, R. 3903
Arceo, M. 3411
Archer, T. L. 308
Archibald, R. D. 160, 4137, 4303, 4584
Arendonk, R. C. M. van 4992 Archibald, R. D. 160, 4137, 4303, 4584
Arendonk, R. C. M. van 4992
Argente, A. M. 2902
Argyriou, L. C. 1966, 3799, 5622
Arias, C. 6543
Arif, B. M. 5240
Arita, Y. 700
Ariwa, M. 2646
Ark, H. van 489, 4568
Arkhipov, G. E. 5838, 6504
Arlian, L. G. 3283
Armbrust, E. J. 3450, 4534
Armitage, K. B. 5007
Armstrong, J. A. 629, 6632
Arn, H. 1744, 3988, 3989, 6059
Arnold, F. J. 3826 Armstrong, J. A. 629, 6632
Arn, H. 1744, 3988, 3989, 6059
Arnold, F. J. 3826
Arnold, J. W. 710
Arnt, T. 5527
Arora, G. L. 4197, 4198, 4201, 6034
Arora, P. 4272
Arqués, L. V. 6047
Arra, J. 1325
Arru, G. 3610
Arshad, M. 4872
Artamonov, S. D. 154
Arthur, A. P. 2206
Artyukh, A. D. 2360
Artzi, A. 4128
Arzone, A. 1059, 1119, 2081, 4554, 5512, 6457, 6469, 6587, 6588
Asai, M. 1145
Asai, T. 5187
Asano, S. 674, 1704, 2769, 4756, 5274, 6105, 6584
Asavanich, A. P. 297
Asawa, T. 641
Ascher, K. R. S. 485, 1720, 3724, 6727
Asghar, M. A. 1773, 5382
Ashall, C. 1873
Ashburner, M. 2722
Ashby, J. W. 1504, 5049
Ashida, M. 736, 4224, 4241
Ashley, T. R. 4763
Ashlock, P. D. 2063, 6127
Asharf, M. 1773
Ashry, M. A. 225, 3816
Ashton, D. H. 2587
Asjes, C. J. 3567
Askari, A. 3769
Askew, R. R. 847, 1836, 4094, 4622, 4623
Aslam, M. 669
Assal, O. M. 4353, 4354, 4378
Assar, M. R. El- 4389

Assar, M. R. S. El- 6705 Assar, R. El- 4365 Assem, M. A. H. 4357, 4358 Association Française de Association Française de Normalisation 1609 Association of Applied Insect Ecologists 5891 Atanasov, A. I. 1622 Atanasov, Kh. 3130 Atger, P. 5607 Athias-Henriot, C. 2051 Atkins, M. D. 2556, 2751 Atkinson, D. S. 5872, 5879, 5880 Atkinson, P. R. 1374 Atkinson, T. H. 2578 Atkinson, W. D. 597, 598 Atsusawa, S. 6143 Attal, Z. M. El- 4704 Attia, F. I. 1110, 1695, 1700, 1701 Attiah, H. H. 3371 Attri, B. S. 2474 Aubert, B. 1467 Audemard, H. 968 5880 Aubert, B. 1467 Audemard, H. 968 Auger, J. 2499 Aun Chuan, Ooi 322 Austarå, Ø. 2563 Australian Plague Locust Commission 6272 Auzay, H. 442 Avasthy, P. N. 291, 2351, 2352 Audoshov, B. S. 1674 2352 Avdoshov, B. S. 1674 Averill, R. D. 564 Averre, C. W. 2629, 2630 Aviador, P. 4953 Avram, V. 105, 106 Awad, B. A. Abou- 393, 403, 1769, 4596 Awadallah, A. M. 4062, 4342, 4347, 4348, 4399 Awadallah, K. T. 516, 834, 835, 3451, 4743, 5357 Awaknavar, J. S. 1417, 1547, 1548, 3416 Awasthi, M. D. 1521, 3012, 6512 Awasthi, M. D. 1521, 3012, 6512
Awate, B. G. 2494, 3020, 5643
Awate, D. G. 2495
Ayad, F. A. 810, 4379
Ayala Osuna, J. 1397
Ayasha, A. A. 222
Ayertey, J. N. 3653, 4667
Ayoade, K. A. 455
Ayre, G. L. 996, 4428, 6447
Azam, K. M. 338, 2428, 5650
Aziz, S. A. 2317, 2796
Aziz, Z. B. A. 431
Ba-Angood, S. A. 485
Ba-Angood, S. A. 5. 2477
Baars, M. A. 4874, 5374
Babayan, G. A. 2948, 2949
Babchuk, I. V. 5464
Babilas, W. 1869, 3539
Babrikova, T. 4987, 6306
Babu, P. C. S. 991
Babu, S. S. C. 3050
Bača, F. 5541
Bacchus, S. 716
Bachan Singh 3670
Bacheler, J. S. 167
Bachman, S. 2231
Bacon, J. 239, 3751
Bädan, A. 105, 106
Badawy, A. 2422, 2423, 2424, 2425
Badawy, B. A. 1043, 2536
Badiali, G. 5188 6512 Badawy, B. A. 1043, 2536 Badiali, G. 5188 Badowska-Czubik, T. 2277, Badowska-Czubik, T. 2277, 2775, 3300
Badry, E. A. El- 2535
Baehr, J. C. 2218, 3332, 4782, 5341, 6288
Baeschlin, R. 5605
Baeva, V. G. 2760
Bagal, S. R. 1031
Bagdonas, J. S. 5398
Baggiolini, M. 1982, 2433
Bagheri-Zenouz, E. 207
Bahrawi, A. El- 227, 3798
Bai, N. R. 3897

Baicu, G. 5700 Baicu, T. 5700 Bailey, B. K. 2279, 3236 Bailey, J. C. 2013, 2514, 2519, 2542 2342
Bailey, P. 5616
Bailey, P. T. 5934
Bailey, W. J. 5292
Baillie, A. C. 661
Baillod, M. 2429, 2433, 2940
Bainbridge, A. 2102
Baines, D. M. 51
Bainos, A. 1157 Baines, D. M. 51
Bainova, A. 1157
Bajusz, B. A. 4944
Bakar, A. K. B. Abu 431
Baker, B. H. 5738
Baker, C. S. Wood-5297
Baker, F. L. 5858
Baker, G. L. 2322, 2793
Baker, J. E. 40, 2197, 3269, 5331, 6176
Baker, N. T. 2274
Baker, P. S. 4417, 4418, 4419, 4421, 4422, 6400
Baker, R. 46, 47, 48, 667, 1734, 1876, 3868, 4761, 6066
Baker, R. R. 2742 Baker, R. R. 2742 Baker, R. T. 3997, 6720 Baker, T. C. 1221, 3262, 3298, 5073 Bakhetia, D. R. C. 3542 Bakhvalov, S. A. 1641, 1643 Bakke, A. 4621 Bakke, A. 4621 Bakonyi, G. 3349 Bakry, N. 4394, 5986 Bakry, N. M. 4359 Bakuniak, E. 3705 Balaam, R. 3100 Balakrishna Pillai, K. 3939 Balakrishna Piliai, K. 3939
Balaraman, K. 2978
Balarin, I. 2078
Balasubramanian, B. 3948
Balasubramanian, G. 6568
Balasubramanian, M. 339,
414, 1154, 1928, 2537, 2858,
4072, 5554, 5573, 5702,
5832, 6562 5832, 6562
Balasubramanian, R. 3898
Balderson, J. 1841
Bale, J. S. 1574
Balevski, A. 370, 1964
Balinov, I. 3183
Baljinder Singh 2830
Ball, G. E. 3338
Ball, H. J. 93, 5978, 6226, 6246
Ball J. C. 2448 4555 647 6246
Ball, J. C. 2448, 4555, 6476
Ball, M. U. 5350
Ball, S. 176
Ballal, A. S. El- 4401
Ballard, J. B. 877, 1875, 6295
Balldorf, D. B. 4013
Ballmer, G. R. 3550
Ballon, F. B. 449
Baloch, A. A. 232
Balsbaugh, E. U., Jr. 138, 264, 5825
Baltac, M. 5602 Balsbaugh, E. U., Jr. 138, 264, 5825

Baltac, M. 5603

Baltensweiler, W. 3585, 3586, 3587, 4108

Banasihan, V. P. 447

Banaszak, H. 1871

Bandong, J. P. 446, 904, 2372

Banerjee, B. 779

Banerjee, S. S322

Banerjee, S. K. 2543

Banerjee, S. K. 2543

Banerjee, S. N. 320

Banfield, E. C. 6624

Banfield, R. A. 6505

Bang, F. B. 3148, 3159, 3160, 4689, 5244

Bangsholt, F. 1842

Banhawy, E. M. El- 1911, 2334

Baniabbassi, N. 1380 Baniabbassi, N. 1380 Bańkowska, R. 792 Banks, H. J. 1115, 1116, 2095, 2096, 3640, 5225 Bansal, H. C. 5043 Bansal, R. K. 5406

Bansode, P. C. 1608, 6640 Banttari, E. E. 5835 Bar, D. 1037 Bar, D. 1037
Bar-Joseph, M. 2103, 4690
Bar-Zacay, I. 4560, 4561
Barabanova, V. V. 4231
Barabás, A. 1719
Barabás, L. 4207
Barak, A. V. 4112, 6170
Barakat, A. A. 4380, 4395, 4396 4396 Baranovskii, V. I. 1642 Baranowski, R. 5414 Baranowski, R. M. 2348, 4486, 6008 Barbagallo, S. 2446, 3492, 5762 5762
Barbashova, N. M. 5837
Barber, R. P. A. 6016
Barbier, R. 3731
Barbin, D. 2014
Barbosa, J. C. 5570
Barbosa, J. C. 5570, 5623
Barbosa, J. T. 1375
Barbosa, P. 578, 1573, 2711, 2812, 4632, 5189, 5755
Barbosa, S. 4072
Bărbulescu, A. 812, 813, 866, 875 875 8/5 Barcellos, D. F. 4520, 5828 Barclay, L. W. 3994 Bardner, R. 6509 Barger, J. H. 2055 Bargiello, T. A. 735 Bariola, L. A. 2533, 3044, 6559 o.539 Barker, J. F. 1233 Barker, P. S. 4658, 4669 Barlow, C. A. 843 Barlow, N. D. 5156, 6591 Barnard, D. R. 1317 Barlow, N. D. 5156, 6591
Barnard, D. R. 1317
Barnard, J. 382
Barnes, B. N. 177
Barnes, G. L. 2782
Barnes, H. M. 3136, 3137
Barnes, J. K. 3843
Barnes, M. M. 2932
Barnett, O. W. 609
Barnett, W. W. 2435
Barnett, W. W. 2435
Barney, R. J. 3450
Barnoy, V. 1226
Barr, D. 5463
Barr, D. 5463
Barr, D. 5463
Barr, W. F. 2171, 4306
Barral, J. 4072
Barray, S. 2619
Barret, P. M. 4834, 5812
Barreto, B. A. 6510
Barrett, F. M. 6063
Barriow, E. M. 69, 4633
Barriows, E. M. 69, 4633
Barrows, E. M. 69, 4633
Barrtows, E. 6101
Bartlett, P. W. 4851
Barwig, B. 6066
Basarkar, C. D. 837, 1828
Basavanna, G. P. C. 1319
Basedow, T. 5524
Bashar, M. A. 4075
Baskaran, P. 341, 3941, 3948, 5554, 5707, 5956, 6393
Baskerville, G. L. 6623
Bass, J. A. 242
Bass, M. H. 463, 672, 2639, 5991
Bassal, T. T. M. 3230 5991
Bassal, T. T. M. 3230
Bassino, J. P. 2940
Basson, N. C. J. 489
Bastos, J. A. M. 407
Basu, R. C. 795, 796, 1839, 1840, 2265
Basu, S. K. 3946
Basurmanova, O. K. 4248
Batasheva, Z. N. 1442
Bateman, D. 623
Batista, G. C. de 5460

uthor Index átora, V. 640 atra, H. N. 624, 4142 atra, R. C. 2419, 2420, 2447, atra, S. W. T. 3351, 4487, 5503, 5504 attershell, R. D. 658
attisti, R. de 1088
atzer, H. O. 510, 563
audez, A. Provansal- 2685
audín, J. M. García- 3871
audry-Partiaoglou, N. 2685
auernfeind, R. J. 6233
autista, A. 3960
axendale, F. 4901
ayan, A. Kh. 370
ayode, E. M. 5486
ayon, C. 5317
azinet, N. L. 2584, 5760
azire-Benazét, M. 1800, 2694
eal, R. H. 3147, 4465
ean, A. 4900
ean Information Center, attershell, R. D. 658 ean Information Center, Centro Internacional de Agricultura Tropical 1507, 5103 eard, B. H. 1522 eard, J. T. 3662 earden, B. E. 944 eardsley, J. W., Jr. 4206, 4308, 4610, 4614, 5264 eaudreau, G. S. 4685 leaulaton, J. 6052, 6314 leaver, R. A. 1095, 1248, 3459 eavers, J. B. 2701, 4556, 6484 Beber, K. 6454 leber, K. 0434 lechinski, E. 6196 leck, A. K. 5017 leck, S. D. 178, 6181 lecker, E. C. 17, 23, 25, 503 lecker, G. 4672, 4673, 5344, 5487, 5491 lecker, M. 5304 leckmap, B. R. 3256 5487, 5491

secker, M. 5304

seckman, B. R. 3256

sedard, W. D. 2580, 3064

sedford, E. C. G. 2452, 2973, 2974, 4007

sedford, G. O. 2936, 5439

sedini, C. 6673

sedwin, O. 840, 841

seekman, A. G. B. 6687

seeman, R. W. 4758

seemster, A. B. R. 1019

seenakkers, A. M. T. 733, 3251, 3743, 4228

seer, P. R. de 981

seevers, M. 4064

seevor, P. S. 1740, 2200, 3507, 6056

segum, J. 4403

sehan, M. 5927

sehura, B. K. 2696

seiger, M. 3326

seilakh, G. Kh. 6539 Beilakh, G. Kh. 6539 Beiauki, G. Kn. 6339 Béique, R. 511 Beirne, B. P. 950, 1065, 1974 Bejer, B. 6270, 6600 Belal, M. H. 4379 Beland, G. L. 2486 Belau, L. 2876 Belgium, Centre de Recherches Agronomiques de l'État 2165 Belien, J. M. 1523 Belinsky, A. 2729 Bell, C. H. 773, 1147, 3638, 6706
Bell, D. M. 2209, 5337
Bell, D. S. 5884
Bell, E. A. 6271
Bell, J. V. 6675
Bell, P. D. 938
Bell, R. A. 4886, 4935
Bellamy, G. 3252
Bellas, T. E. 3983
Bellehu, A. 5898
Bellinger, R. G. 4887
Bellini, G. 4569
Bellotti, A. 1024, 6543

Bellotti, A. C. 1023, 1025 Bellotti, A. C. 1023, 1025
Belonozhko, G. A. 2143
Belyaeva, N. V. 118
Belyaeva, T. G. 3264
Bem, F. 600, 601
Ben-Dov, Y. 399, 704, 6012
Ben-Ze'ev, I. 5621
Benassi, R. 3114
Benassy, C. 5608, 6491
Benavent, J. M. 6480
Benazét, M. Bazire- 1800, 2694
Bencomo, I. 4033 2694
Bencomo, I. 4033
Benedek, P. 3188
Benfatto, D. 986, 5628
Bengston, M. 3635
Benham, B. R. 2733
Benigno, D. R. A. 443
Benjamin, D. M. 550, 5161, 6185, 6206, 6209
Benkara-Mostefa, A. 2315
Bennet-Clark, H. C. 1784
Bennett, A. W. 2824
Bennett, F. D. 1664, 1667, Hennett, I. R. 3094
Benoit, M. 2813
Benschoter, C. A. 2098
Bent, G. 2330 Benton, A. H. 2734 Benton, A. H. 2754 Benyi, K. 1117 Benz, G. 255, 1628 Beraldo, M. J. A. 189 Beraldo, M. J. A. H. 188, 5460 Beránková, J. 1711 Beratlief, C. 105, 106, 5802 Beratlief, Z. 5861 Berberet, R. C. 3528, 4038, 6436 6436
Bereskun, T. M. 1673
Berg, A. van den 489
Berg, M. A. van den 5169
Bergerson, O. 2601, 3768
Bergman, O. 3078
Bergougnoux, F. 3144, 3461
Bergström, G. 1236, 1732, 3744
Berisford C. W. 502, 559 3744
Berisford, C. W. 502, 558, 1567, 4618, 5151
Berkett, L. P. 6596
Berland, L. 6265
Berlese, A. 2187
Berlinger, M. J. 3800, 5425
Berlocher, S. H. 4809, 5597
Berman, M. K. 6198
Bermawy, Z. A. El- 223, 4381, 4382
Bernal Restreno M. 5180 Bernal Restrepo, M. 5180 Bernard, F. 6265 Bernard, J. 6691 Bernard, F. 6265
Bernard, J. 6691
Bernays, E. A. 3790, 4226
Bernhardt, J. L. 2480
Bernon, G. 362
Berridge, M. J. 2190
Berry, F. E. 878, 3716
Berry, F. H. 1105
Berry, R. E. 4785
Berry, R. W. 2097
Berryman, A. A. 383, 2585, 2586, 3583, 5216
Berthold, P. 3178
Besemer, H. A. 1853
Beshear, R. J. 2267
Best, K. F. 6339
Best, R. L. 1428
Bestmann, H. J. 2582
Bethune, T. D. 937
Betke, P. 4440
Betts, D. T. Akibo- 3918
Betts, E. 5902, 5905
Beute, M. K. 2019
Bevan, D. 4846
Bežo, M. 4207
Bhalla, O. P. 815
Bhandari, D. R. 4067
Bhannot, J. P. 869, 1393, 6656
Bharatan, G. 3001
Bharati, M. P. 432
Bhardwaj, S. C. 862, 3009, 5351
Bhargava, S. 4819 Bhargava, S. 4819 Bhaskaran, G. 6083

Bhat, S. 4446 Bhateja, B. R. 5306, 5404 Bhatia, P. 5221, 5445
Bhatia, S. K. 3125, 5804
Bhatkar, A. P. 3335
Bhatnagar, S. P. 852, 2853
Bhatnagar, V. S. 3418, 4009, 4146, 6310
Bhattacharias N. S. 1521 Bhattacharjee, N. S. 1521 Bhattacharya, A. K. 52, 1820, 5815, 5830, 6667 Bhattacharya, S. P. 3559 Bhatti, I. M. 3914 Bhatti, J. S. 4199, 6027 Bhide, V. P. 2618 Bhimanwar, R. M. 2915 Bhudhasamai, T. 3951, 3968 Bhumannavar, B. S. 2508, 4056 Bianchi, H. 5608 Biase, L. Micieli de 1972, 3492, 5592, 5794 Bielejewski, J. 3036 Bieliński, M. 6536 Biemont, C. 4986 Biemont, J. C. 2680, 2709, 2710 Bierl-Leonhardt, B. A. 1589, 1676, 4312, 5328, 5329, 6461
Biernacki, W. 1715
Biesinger, R. 4759
Biever, K. D. 2001, 3547
Bigelow, R. S. 6289
Bilapate, G. G. 775, 2483, 2503, 2507, 2822
Binazzi, A. 1985, 2082
Binder, R. G. 2486, 5266
Bindra, O. S. 1612, 6307, 6560, 6561 6560, 6561 Bink, F. A. 1858, 3829 Bink-Moenen, R. M. 3829 Binns, E. S. 412, 5091 Biological and Chemical Research Institute, New South Wales 2161 Biologische Bundesanstalt für Land- und Forstwirtschaft 6734, 6735 BIOTROP 2155 Biradar, V. K. 683 Birch, L. C. 1822 Birch, M. C. 163, 555 Bird, J. 3148, 5160 Birkenbeil, H. 6085 Birkenbeil, H. 6085 Birkenmeyer, D. R. 75 Birkett, N. L. 2678 Birley, M. H. 4697 Bischof, I. 105, 106 Bishara, R. H. 976, 977 Bishara, S. I. 4475 Bishara, S. I. 44/5 Bishop, A. L. 5941 Bishop, G. W. 5694 Bisht, R. S. 852, 2853 Biswas, M. K. 1750, 1751, 1752, 3239 Bitran, E. A. 586, 591, 592, 4121 Bitsch, J. 4783 Bitters, W. P. 5629 Bitton, S. 5621 Black, L. M. 4691 Blackith, R. E. 100, 114 Blackman, R. L. 3728, 4816, 6044 6044
Blackwell, M. 3867
Blair, B. W. 1267, 1749
Blair, L. M. 1967
Blais, J. R. 6630
Blaisinger, P. 5612
Blakeley, N. 1203
Blakeslee, R. D. 2413
Blănaru, O. 105, 106
Blanco Sánchez, N. 4033, 4034 4034 Bland, R. G. 6005 Blank, R. H. 3979, 4154, 4155, 5884 H155, 5884
Błażejewska, A. 3675
Bledsoe, L. W. 6192, 6194
Blennerhassett, M. G. 4242
Blickenstaff, C. C. 2491

Bhat, P. K. 6578, 6580

Blight, M. M. 1096, 1801 Blocker, H. D. 1762 Blommers, L. H. M. 4992 Blomquist, G. J. 765, 766, Story C. J. 765, 765, 765, 5422

Blomqvist, H. 6701

Blood, P. R. B. 4058

Bloom, J. W. 2683

Blow, D. P. 5262

Blum, M. S. 1165, 1733, 2748, 4236, 6294

Blum, N. A. 2748

Blumberg, D. 2832

Blumenbach, D. 6734, 6735

Blumenthal, E. M. 2566

Blumdell, D. R. 972

Blunt, C. G. 1707

Blythe, J. L. 1461, 6461

Boas, A. M. Villas 1370

Boccherini, J. Sánchez- 3366

Boch, R. 3683

Bochen, K. 3875, 3876

Bock, I. R. 3775, 5289

Bockelee-Morvan, A. 3145

Boctor, I. Z. 4786, 6686 5422 Bockelee-Morvan, A. 3145 Boctor, I. Z. 4786, 6686 Boczek, J. 3652 Bode, W. M. 4888 Boeckh, J. 2705 Boekh, V. 2705 Boelter, L. M. 2071, 2072 Boer, L. den 5092 Boethel, D. J. 373, 2432, 2932, 5062 5062 Bogdanov, B. 3183 Bogdanova, D. A. 1599 Boggs, C. L. 5311 Boggs, J. F. 505 Bogomolova, V. A. 2716, 3773 Bogyo, T. P. 383 Bohart, G. E. 135 Bohart, R. M. 3, 2764, 6317 Boheman, C. H. 1833 Bohm, G. A. 4259 Böhm, H. 1755 Bohn, G. W. 3540 Bogdanov, B. 3183 Bohn, G. W. 3540 Bohn, H. 6066 Boîko, N. I. 3360 Boiteau, G. 1003, 1509, 1510, 2485, 4589 2485, 4589 Boivin, G. 960 Bolay, A. 2433 Bolchi, G. Serini 3112, 5534 Boldt, P. E. 809, 2347, 5010 Boles, H. P. 2785, 6177 Bolland, H. R. 4411 Bolland, R. 705 Bollenbacher, W. E. 6079, Boller, E. F. 4811, 5610 Boller, E. F. 4811, 36 Bollogna, M. A. 4297 Bolte, K. B. 1975 Bolton, M. C. 507 Boman, H. G. 748 Bonafotte, P. 4255 Bonavita-Cougourdan, A. 1337 Bond, E. J. 4149, 6659 Bond, E. J. 4149, 6659 Bondarenko, N. V. 2119 Bondarenko, V. I. 2360 Bonfils, J. 1470 Bongers, J. 6104 Boninsegna, J. A. 5709 Bonnemaison, L. 772 Bonnot, G. 1316 Bono, A. de 1475 Bono, A. de 1475
Bonvicini Pagliai, A. M. 4165
Booth, G. M. 2589
Booth, P. 6356
Booth, R. H. 3143
Boraston, R. C. 6671
Borden, J. H. 2198, 4096, 4097, 5213
Bordereau, C. 844
Bordner, J. 5115
Borge, Karlson A. K. 4437 Border, J. 3113 Borg-Karlson, A. K. 4437 Borikar, P. S. 5039 Borisoglebskaya, M. S. 155 Borle, M. N. 2770, 2915, 3220, 4025, 5572, 5710, 6554 Born, L. 2640 Bornemissza, G. 3727

Borthakur, M. 3564 Bortoli, S. A. de 1397 Bosch, R. van den 3991 Boscher, J. 3031, 5698 Boshoff, W. H. 3622 Bosman, B. T. 816 Bosquet, G. 6053 Bot, J. 642 Botar, A. A. 1719 Botha, T. C. 6334 Botswana and Swaziland University, Agricultural Research Division 2159 Bouček, Z. 702, 703, 4462 Boucher, D. H. 5594 Bouchery, Y. 1849 Bouchet, J. 6548 Boucias, D. G. 4141, 6218, 6728 Boudreaux, H. B. 2432, 4410 Boulard, M. 1184 Boulay, C. 3849 Bouletreau, M. 4986 Boulton, R. E. 5027 Bourdin, J. 2359 Bourdouxhe, L. 6550 Bourg, J. A. 3317 Bourgin, G. Viennot- 1470 Bourg, J. A. 3317
Bourgin, G. ViennotBourgogne, J. 6265
Bournoville, R. 3002
Bouse, L. F. 1045
Bouseman, J. K. 2657
Boush, G. M. 2610, 3695
Bove, J. M. 1470
Bowden, J. 95, 2223
Bowers, W. S. 762, 2714, 3229, 5990
Bowes, G. G. 6339
Bowker, L. S. 3619
Bowler, K. 745
Bowley, C. R. 773
Bowling, C. C. 326
Bowman, D. T. 2517
Boxall, R. A. 3625
Boxtel, W. van 196
Boyd, J. F. 2648
Boyle, P. A. 3225
Brackbill, H. 86
Bracken, G. K. 2125
Brackbill, H. 86
Bracken, G. K. 2125
Bradfield, J. Y. 1V 6077
Bradley, J. R. Jr. 1003, 156
1510, 2485, 4589
Bradovskaya, N. P. 3865
Bradshaw, J. W. S. 466, 47, Brady, U. E. 4705
Braesch, S. Fuzeau1326, 2215, 2220, 3333, 4781
Brand, J. W. 2517 1003, 1509, 46, 47, 48 A781
Brand, J. W. 2517
Brandão, C. R. F. 2805
Brandes, W. 650
Braness, G. A. 1539, 2033
Braness, G. B. 6259
Brann, T. B. 6596
Branson, T. F. 5539
Brar, K. S. 415
Brassel, J. 1628
Brassel, J. 1628
Braude, R. 4131
Bräunig, P. 4216
Bravo, R. Rodríguez 1672
Brawner, O. L. 5619, 6489
Brayton, M. A. 1128
Brazil, PLANALSUCAR
1916
Breen, J. 5146 4781 1916
Breen, J. 5146
Breeh, J. 5146
Brehélin, M. 4243
Breisch, H. 3461
Bremer, K. 4546
Brenière, J. 2681
Brennan, P. A. 5926
Bressau, G. 3212
Bretherton, R. F. 163
Brett, W. J. 2739
Brettell, J. H. 3041
Brewer, F. D. 179, 6316
Brewer, G. 6226
Brewer, J. W. 576
Brewer, K. D. 809
Breznak, J. A. 4223, 4464

Bridges, J. R. 2283, 4628, 6729 Briese, D. T. 1458, 1459, 6267 Brieze-Stegeman, R. 1956, 5416 Briganti, L. 2292 Brim, C. A. 2011 Brindle, A. 3243 Briner, P. H. 667 Bringmann, H. D. 4639 Brink, W. J. van den 4217 Briolini, G. 4551, 5606 Brister, C. D. 3830 British Columbia, Vancouver British Columbia, Vancouver Research Station 4178 Brito García, D. 3953 Brits, J. A. 4251, 4252, 4253 Britvec, B. 2078 Brnetić, D. 987 Broadley, R. H. 1921, 3051 Brockmann, H. J. 6102 Brod, G. 5728 Brodel, C. F. 5586 Bronkhorst, G. J. 5627 Brooks, A. R. 2314 Brooks, G. T. 649, 1716, 3192, 5343 Brooks, J. C. 3940 5343
Brooks, J. C. 3940
Brooks, M. A. 1302
Brooks, R. F. 974
Brooks, T. W. 1745
Brooks, W. M. 460, 2041
Broome, J. R. 5852
Brophy, J. J. 3984
Broumas, T. 3814
Brouwers, E. V. M. 730
Broodii, V. M. 2753
Brower, J. H. 1109, 2230, 3758
Brown, A. G. 3070, 3613 Brower, J. H. 1109, 2230, 3758
Brown, A. G. 3070, 3613
Brown, C. 4732
Brown, C. A. 1798
Brown, D. A. 3693
Brown, D. G. 657
Brown, E. S. 2740
Brown, E. S. 2740
Brown, G. C. 383
Brown, G. C. 383
Brown, G. C. 383
Brown, J. D. 2005, 2482
Brown, J. J. 6535
Brown, J. M. 2510
Brown, K. S., Jr. 4856
Brown, K. W. 5240, 5751
Brown, M. 4680
Brown, M. W. 523, 4889
Brown, R. L. 1174
Brown, W. L., Jr. 2659
Browne, F. G. 1095
Browne, F. G. 1095
Browne, L. E. 2199, 3064, 5775
Browning, T. O. 3289 5775.
Browning, T. O. 3289
Browning, T. O. 3289
Brownlee, H. 6437
Bruce, W. A. 3643, 3647
Bruen, R. B. 1072, 1130
Brugge, B. 532
Brun, G. L. 5739
Brun, P. 368
Brunel, E. 214, 217, 3531, 3801, 3811
Brunelli, A. 1022
Brunelli, H. C., Jr. 1545, 1546, 3016
Bryan, G. 6013
Bryant, M. 4974
Bryce, I. J. GrahamBryden, J. W. 1052
Buchan, P. B. 172
Buchanan, E. J. 1373 Buchan, P. B. 172 Buchanan, E. J. 1373 Büchel, K. H. 2640 Bucher, G. E. 2125 Büchi, R. 2150, 5017 Buchmeier, P. F. 6197 Buck, D. R. 3323 Buck, N. A. 648 Buckland, C. T. 4149 Buckner, J. S. 4246, 4247, 6096 6096 Budgeon, L. A. 5195 Budhraja, K. 5561, 6409 Budnova, T. V. 5417 Budrik, E. S. 2121 Bues, R. 1669, 1850, 2998

Buga, S. 2867 Buitendag, C. H. 5627 Buitrago, J. M. González-Bulbul, O. 4127, 4128 Buleza, V. V. 3861, 5112 Bulger, J. B. 3102 Buliginskaya, M. A. 3173 Bulliginskaya, M. A. 3173
Bull, D. L. 1045, 5725
Bulla, L. A., Jr. 3682
Bullock, R. C. 5081
Bultman, J. D. 3147, 4465
Bulukhto, N. P. 6605
Bund, C. F. van de 533
Bundu, H. S. 1532
Bungarz, K. 2640
Bunting, A. M. 542
Bunting, S. 5348, 6086
Burananang, S. 3309, 39 Buranapawang, S. 3909, 3951, 3968 3968
Burbutis, P. P. 171, 309
Burden, G. S. 826
Burditt, A. K., Jr. 2154
Bureau of Sugar Experiment
Stations, Queensland 3880
Burger, H. C. 533
Burgerjon, A. 4024
Burgeron, A. 2998
Burges, H. D. 2750, 3058
Burges, R. J. 4499
Burgess, L. 5094
Burgett, M. 3717
Burgman, M. A. 6021 Burgess, L. 5094
Burgest, M. 3717
Burgman, M. A. 6021
Burgos, J. A. Montoya 1654
Burlikam, I. 3522
Burke, H. R. 8, 484, 2666
Burke, J. A. 3207
Burke, J. M. 5240, 5842, 6633
Burkhard, D. R. 4236
Burkhard, N. 1713
Burkhard, N. 1713
Burkhard, H. E. 4631
Burkholder, W. E. 3629, 6173, 6174, 6180
Burkot, T. R. 550, 6148, 6206
Burnet, B. 2246
Burnet, B. 2246
Burnet, B. 2246
Burnet, T. 508
Burns, M. D. 4423
Burnside, J. A. 1987, 3484
Burov, V. N. 5962
Burnow, M. 6069
Burton, R. L. 3417
Burton, V. E. 2532
Buser, H. R. 6059
Bush, G. L. 4810
Busoli, A. C. 5570, 6426
Bustillo, A. E. 6144
Bustillo, M. R. Gómez- 4092
Busto, T. del 2967
Butani, P. G. 5593, 6529 5626 Butani, P. G. 5593, 6529 Butler, G. D., Jr. 70, 483, 1257, 3043, 5423, 5715, 6101
Butler, J. H. B. 5890
Butler, L. I. 4171
Butt, B. A. 4590, 6535
Butter, N. S. 5024
Butterworth, F. M. 3253, 5320
Buttery, R. G. 2649, 6453
Büttlker, W. 2266
Byerly, K. F. 1550
Byers, G. W. 2763
Byers, J. A. 2199, 2244, 5327, 5775
Byers, J. R. 4716, 6009 6101 5775
Byers, J. R. 4716, 6009
Byers, R. A. 347, 924
Byrdy, S. 1868
Byrne, D. N. 5694
Bystrak, P. G. 498
Caballero, J. 980
Cabauatan, P. Q. 883, 3956
Cabral, M. T. E. C. 4652,
4653 4653 Cabrera, R. Álvarez 3853 Cade, W. 6102 Cade, W. H. 2240, 2741, 6043 Cagniant, H. 1339

Cailla, H. 746 Calambuca, E. 5592, 5794 Calavan, E. C. 5629 Calcagnolo, G. 6519 Calcote, V. R. 3993 Calderon, M. 787, 4132 Caldwell, D. L. 559 Caldwell, J. M. 4246, 4247 Caldwell, R. L. 84, 4237 California Department of Food and Agriculture, Citrus and Agriculture, Citrus Research Board 5079 Call, D. L. 3241 Callan, E. M. 4456 Callan, E. McC. 2768 Calumbuca, E. 1972 Calvez, B. 2222, 6053 Camargo, J. M. F. de 81 Cameron, D. W. 1815 Cameron, E. A. 523, 3576, 3591, 4882 Sameron, S. 1074
Campana, R. J. 3087
Campbell, B. C. 251, 1030
Campbell, J. J. 4258
Campbell, J. M. 1190
Campbell, M. H. 5576
Campbell, R. K. 2782, 3343, 6309 Campbell, R. W. 540 Campbell, W. V. 1608 Campero, J. 4072 Campero, J. 4072
Campion, D. G. 1740, 3507
Campos, E. M. B. 1517
Campos, M. 405, 984
Campos, M. J. de Oliveira 186
Campos, T. B. 586, 591, 592
Čamprag, D. 2869
Canada Agriculture 5999
Canada, National Research
Council 4162 Council 4162 Canadian Forestry Service 6616 Canard, M. 1992, 1993, 1994, 5085, 5639, 6490, 6492 Cancelado, R. E. 3533, 3535, 6232 Cancelado, R. E. 3533, 3535, 6232
Candler, W. H., Jr. 6707
Candy, D. J. 3261
Cangardel, H. 5315
Canivet, J. P. 668
Cannon, R. 2330
Cantelo, W. W. 1169, 4016
Cantot, P. 3981
Cantrell, B. K. 2671
Cantwell, G. E. 1629
Capecki, Z. 3594, 3601
Capek, M. 3601
Capinera, J. L. 97, 466, 578, 1018, 3694, 4042, 4173
Caporale, S. 2362
Caprotti, M. 4757
Carabolante, A. 5623
Caramete, A. 5700
Carbonell, R. Meneses 3953, 4445
Cardé, A. M. 1221 Cardé, A. M. 1221 Cardé, R. T. 780, 1221, 1799, 3262, 3298, 5073, 5278, S202, 3278, 3073, 3276, 5602

Carew, G. C. 6624
Carey, P. 1074
Carle, P. 3574, 3578
Carlisle, J. A. 1793
Carlsen, J. 1792
Carlson, E. C. 1522
Carlson, G. A. 5785
Carlson, O. V. 3736
Carlton, J. B. 1045
Carlysle, T. C. 6036
Carman, G. E. 4160
Carmi, Y. 4127, 4159
Carne, P. B. 3070, 3613
Carner, G. R. 609
Caro, J. H. 4312, 5995
Carpaneto, G. M. 4296
Carpenter, A. 5873 5602 Carpenter, A. 5873
Carpenter, J. E. 2898
Carpenter, T. L. 947, 2943
Carpita, A. 743

uthor Index arrero, J. M. 3493, 3494, 3495, 3496, 3497, 3498, 3499 arrillo, J. L. Martínez 2298 arrillo, J. L. Martinez 22'
arrillo L., R. 932, 2465
arrodus, B. B. 2693
arroll, J. E. 4027
arroll, M. 6224
arroll, M. K. 3317
arroll, M. R. 561 Carter, C. I. 1559, 4846 Arter, F. L. 2632 Larton, Y. 3166 Lartwright, B. O. 3343, 6309 Lartwright, O. L. 1308 Carty, B. E. 390 Caruelle, J. P. 3332 Casas, E. de las 6179 Casida, J. E. 656, 1160, 1164, 2127, 3544 Casimir, M. 822 Cassava Information Center, Centro Internacional de Agricultura Tropical 3027, Cassier, P. 3332, 4214, 4769, 4782, 5341 Castagnoli, M. 2050 Lastagnon, M. 2000 Lastaños Lugo, C. 1671 Lastel, J. M. 5899 Lastellari, P. L. 4551 Lastillo, C. Aguirre 5179 Lastillo, M. D. 446 Castresana Estrada, L. 246 Lastresana Estrada, L. 246 Castro, A. 1023 Castro, G. Díaz 2306, 2307 Castro, P. R. C. 4074 Castro Teixeira, R. M. de Castrovillo, P. J. 1799, 5602 Caswell, G. H. 3621 Cate, J. R. 8, 3555 Cate, J. R. 8, 3 Cate, P. 5026 Catedral, I. G. 450 Catherall, P. L. 5027
Catipon, E. M. 449
Catley, A. 5937
Catling, H. D. 2901, 5032, 6425 6425
Caudwell, A. 368
Cavalcaselle, B. 3609
Cavalloro, R. 1971
Caveney, S. 4242
Cavill, G. W. K. 2803, 3984
Cazal, M. Lafon- 4791
Central Coffee Research
Institute, India 4081, 4082
Cantral Tasar Research Station Central Tasar Research Station, India 2846 Centre de Recherches Agronomiques de l'État, Belgium 2165 Centre for Overseas Pest Research, United Kingdom 3242 Centre Technique du Génie Rural des Eaux et des Forêts, Grenoble 3612 Cepelák, J. 157, 5470 Cerda, L. 5173 Cerda M., L. 1073, 1074, 5176 Cerqueira Gomes, J. de 5696 Cerutti, M. 5232, 6683 Cesari Rossi, M. G. 4138 Chabora, P. C. 2811, 4890, 4911 Chabuike, J. E. 3328 Chacko, M. J. 500, 6577, 6578, 6579, 6580, 6581, 6582 Chadha, S. S. 1032 Chadwick, C. E. 1606 Chahal, B. S. 4068 Chai, C. H. 54 Chai, Y. J. 238 Chaix, M. O. 5230 Chakrabarti, M. K. 263 Chakrabarti, S. 410, 1941, 3726, 4727, 4861, 5210 Chakraborti, P. C. 685 Chakraborty, B. B. 4052 Chadha, S. S. 1032

Chakravarti, S. 3405, 3929, 5031 Chakravarty, S. A. 798 Chakravorty, S. 3930 Chalfant, R. B. 2002, 2999, 3026, 3541 Chalumeau, F. E. 1308 Chamberlain, J. 1989
Chambers, D. L. 3142, 4832
Chambers, H. 1150
Chamorro, C. 6333 Chamorro, C. 6333 Champ, B. R. 3637 Champlin, F. R. 2111 Chan, B. G. 304, 2486, 2649, 5029, 5266 Chand, A. T. 2724 Chand, N. 6307 Chand, P. 1640, 2208, 5042 Chandarasaard, S. 3951 Chander, R. 2443 Chander, R. 2443 Chander, S. 935 Chandle, V. K. 5691 Chandler, L. D. 308, 5631 Chandra, G. 3908, 3967 Chandra, J. 2351, 2352 Chandra, J. N. 291 Chandra, S. 589 Chandra, S. 589 Chandra, S. 589
Chandramohan, N. 336, 3922
Chandrasekhar, H. T. 1401
Chandravadana, M. V. 3001
Chandy, K. C. 3912
Chaney, I. 1873
Chang, D. C. 1935
Chang, F. 2196
Chang, G. S. 2588
Chang, H. Y. 1995, 2371
Chang, J. F. 5074
Chang, K. M. 4150
Chang, K. M. 4150
Chang, L. F. 860 Chang, K. M. 4150
Chang, L. F. 860
Chang, S. C. 3754
Chang, S. M. 140
Chang, S. M. 140
Chang, S. T. 2235
Chang, V. C. S. 1377
Chang, W. L. 2396
Chang, Y. D. 3965
Chang, Y. H. 2241
ChannaBasavanna, G. P. 994, 1319, 3017, 3975
Chant, D. A. 1264, 4458, 5293
Chanter, D. O. 2990
Chao, C. Z. 2235
Chaoudhuri, D. K. 1794
Chapa, J. 3461 Chapa, J. 3461 Chapin, J. B. 4310 Chapman, C. S. 1811 Chapman, O. L. 666, 1747, 5328, 5329 Chapman, P. J. 4914 Chapman, R. B. 965, 1155, 2259, 2648, 4288, 5885, 5886 Chapman, R. K. 6228, 6229, 6233 6233
Chararas, C. 1084, 5798
Chari, N. 728
Charlet, M. 760
Charmillot, P. J. 1983
Chase, T., Jr. 5795
Chatelain, M. P. 5776
Chatterjee, M. 1089
Chatterjee, P. B. 888, 3359, 3896, 3949, 6397, 6420
Chatterji, S. M. 3048, 3559
Chattopadhyay, M. 6538
Chaturvedi, D. P. 1405, 2377, 5034 Chaud-Netto, J. 4457 Chaudhary, J. P. 1114, 4501 Chaudhary, R. R. P. 5830 Chaudhri, W. M. 4982 Chaudhry, H. S. 2207 Chaudhry, N. A. 3972 Chaudhry, N. A. 3972 Chaudhuri, R. P. 5691 5691 Chaudhuri, S. A. 6399 Chauve, C. 828 Chauvin, G. 1238, 4792 Chawla, D. S. 3763 Chawla, R. P. 1612, 3011, Chazeau, J. 2840, 2935 Chebatura, P. E. 3469 Cheeran, A. 284

Cheeseman, P. 2712 Cheke, R. A. 235 Chelliah, S. 3927, 3928, 6414 Chellman, C. W. 1086 Chemical Society 5969 Chemsak, J. A. 6126 Chemsak, J. A. 6126 Chen, C. C. 1579 Chen, C. F. 908 Chen, C. N. 266, 1901, 2004, 2384, 2906 Chen, H. T. 2045 Chen, J. C. 2403 Chen, J. H. 266 Chen, J. S. 2141 Chen, S. W. 860 Chen, T. L. 4993, 5473 Chen, T. T. 55 Chen, T. T. 55 Chen, T. W. 5145 Chen, W. H. 5145 Chen, Y. S. 915 Chen, Y. S. 915 Chênevert, R. 5272, 6287 Cheng, C. C. 2906 Cheng, C. H. 2387, 2396, 6376 Cheng, H. Y. 567 Cheng, S. N. 2403 Chenkin, A. F. 3187 Chenon, R. Desmier de 2937, Chenon, R. Desmier de 2937, 4544
Cheong, C. W. 5657
Cherbit, G. 5332
Cherkashin, V. P. 5791
Chernyavskaya, O. A. 1641
Chernysh, S. I. 6074
Cherrett, J. M. 241, 1334
Cherry, E. T. 4604
Cherry, R. 4567
Cherry, R. H. 975, 4280
Cheshire, J. M., Jr. 1387
Chetanchit, D. 3406
Chevin, H. 1831, 5713
Chevin, S. 5474
Chevrier, L. 3167
Chew, F. S. 2851
Chababra, K. S. 5553
Chhibber, R. C. 52
Chi, Ch. Kim- 420
Chiang, H. C. 5540, 6164, 6165, 6249
Chiang, H. S. 445
Chiba, M. 2134
Chien, I. C. 3025
Chieppa, M. 4777, 5312
Childers, S. H. 3485
Childs, C. N. 5345
Childs, C. N. 5345
Childs, D. P. 3656, 3662
Chile, Ministerio de Agricultura 4174, 5998
Chin. C. T. 2189, 2625 Chile, Ministerio de Agricultura 4174, 5998 Chin, C. T. 2189, 2625 Chin, H. F. 437 Chinn, H. R. 5277 Chinnici, J. P. 6677 Chio, H. 4158 Chio, L. C. 3225 Chipoulet, J. M. 1084 Chippendale, G. M. 755, 2216, 6088, 6089 Chiravathanapong, S. N. 6321 Chisholm, D. 3998 Chisholm, M. D. 632, 686, 1135, 2206, 2279, 3236, 1135, 2206, 2279, 3236, 4716, 5993
Chiu, H. T. 1851
Chiu, R. J. 1998, 3025
Chiu, S. C. 2401
Chiu, S. F. 2645
Chmiel, S. M. 2417, 2418
Chmielewski, W. 4616
Chmurzyńska, W. 4168
Choi, S. Y. 2389, 2393
Chokhey Singh 434
Chong, L. 2198, 5213
Chong, W. C. 5657
Choppin de Janvry, G. 5713
Chorney, R. J. 29
Chou, S. M. 908
Chou, Y. L. 620
Choudhari, K. G. 5624, 5625 Choudhari, K. G. 5624, 5625 Choudhary, B. O. 6401 Choudhary, R. S. 2551 Choudhuri, D. K. 3359 Choukri, O. 3797 Chow, Y. S. 997, 6732 Chowdhury, M. A. 3409

Chowdhury, M. M. A. 6424 Choza, J. L. Ramírez 2308, 2309 2309 Christensen, M. 1792 Chu, C. M. 860 Chu, H. F. 2166 Chu, W. H. 3686 Chu, Y. I. 3415 Chua, T. H. 115, 404, 2992 Chuan, Ooi Aun 322 Chudzicka, E. 5759 Chûjô, M. 4293 Chumakov, V. P. 38 Chun Ma, Wei 6322 Chund Ma, Wei 6322 Chundurwar, R. D. 2339 Chung, K. H. 3401 Chung, M. L. 3025 Chung, T. C. 908 Chwala, D. 1253 Ciampolini, M. 941, 992, 5614, 5655 Cicognani, G. 3117, 3120, 3121 3121 Ciemior, K. E. 754, 2647 Cifelli, S. 644, 3219 Cintra, A. F. 6498 Ciochia, V. 2773 Cioffi, M. 3734 Cirto, U. 5732 Citrus Research Board, California Department of Food and Agriculture 5079 Food and Agriculture (Clancy, K. M. 6209)
Clare, N. 3428
Claret, J. 4769
Claridge, M. F. 191, 5299
Clark, E. W. 5177, 5181
Clark, H. C. Bennet- 1784 Clark, J. D. 374 Clark, J. V. 5338 5338 Clark, R. B. 749 Clark, R. D. 1806 Clark, W. C. 3584 Clark, W. E. 3076 Clark, W. E. 3076
Clarke, A. L. 1561
Clarke, A. L. 1561
Clarke, R. G. 5113
Clarke, Sir C. 4220
Clayton, T. 3291, 4607
Clement, S. L. 312
Clements, R. O. 3439
Clemson, A. A. 2144
Clercq, R. de 295
Cleveland, G. D. 5744
Cleveland, M. L. 3470
Cliffe, A. M. 5888
Clifford, C. W. 3256
Clift, A. D. 1699
Climie, I. J. G. 3200
Clinch, P. G. 3840, 4439
Cline, L. D. 4126
Close, R. C. 1504
Cloudsley-Thompson, J. L. Cline, L. D. 4126
Close, R. C. 1504
Cloudsley-Thompson, J. L. 1837, 1959
Cloupeau, M. 2250
Cloutier, C. 1879, 2675, 4995
Clower, D. F. 2517
Cmoluch, Z. 3776
Coaker, T. H. 4172, 5111
Coate, W. B. 1620
Coaton, W. G. H. 5002
Coats, J. R. 2635, 3225, 6216
Coats, R. E. 2943
Coats, S. A. 2635, 3225, 6216
Cobb, D. L. 6244
Cobben, R. H. 3766
Cobby, B. S. 3352
Cochrane, B. J. 1796
Cochrane, W. P. 3208
Cockcroft, T. 4304
Cockrum, P. A. 2693, 5450
Coelho, A. 1496
Coffee Board, India 4081, 4081, 4082 Coffelt, J. A. 2205, 4762, 4764 Cogan, B. H. 6003 Cogan, P. M. 773 Coggin, D. L. 4891 Cohen, B. 4710 Cohen, M. J. 1806 Cole, A. C. 794 Cole, A. J. 3428

Cole, L. R. 3071
Coleman, G. R. 3139
Coleman, V. R. 2331
Coley, J. D. 2366
Colin, M. E. 1878, 3851
Collé, C. 200 Collie, C. 200
Collier, S. S. 618, 1118, 4876
Collingwood, C. A. 2801
Collingwood, E. F. 6550
Collins, G. 1549
Colwell, R. R. 4130
Comins, H. N. 110, 1144, 4801, 5256 Commonwealth Institute of Biological Control 340, 3185, 6692 Commonwealth Institute of Entomology 3303
Concatto, L. C. 2015, 2016
Cone, W. W. 4409, 4412
Conner, R. N. 2557
Connor, J. Y. 1100
Conrad, B. 3179
Conseil de Recherches et
Services Agricoles du
Québec 4177
Contreras, J. de J. S. 2299,
2304, 2305
Contreras, T., J. A. 1665
Converse, R. H. 5113
Conway, G. R. 1144
Cook, A. G. 31, 5270
Cook, B. J. 4774
Cook, L. M. 6119
Cook, B. J. 4774
Cook, L. M. 6119
Cook, M. L. 42
Cook, R. 5371
Cooke, J. R. 3241
Coombs, C. W. 785, 3616
Coons, L. B. 5852
Cooper-Driver, G. 5040
Cooper, J. F. 165
Cooter, R. J. 4420, 4421,
4422, 6400
Coppel, H. C. 742
Copper, W. A. 2560
Coquard, J. 2681
Corbet, A. S. 706
Corcoran, R. J. 1121
Corcoran, R. J. 1121
Corcoran, S. M. 2917
Cordo, H. A. 5507
Cordón, F. Martinez 6532
Corye, R. A. 660
Cormack, D. B. 6547
Cornell University 2163, 3241
Cornell University State
College of Agriculture and
Life Sciences 5281
Cornes, M. A. 6647
Corpuz-Raros, L. A. 6004
Corseuil, E. 2017, 6520
Corso, I. C. 1516
Cortés, A. 6333
Cory, H. T. 536
Coseglia, A. F. 1428
Costa, A. S. 1014, 1754
Costa Leonardo, A. M. 2808
Costa Lima Neto, V. da 1014
Costa, M. 5290
Coster, J. E. 783, 3589
Costilow, R. N. 3682
Cotton, D. 379
Cotton, D. C. F. 3423
Cotton Research Institute, Cotton, B. C. F. 3422
Cotton Research Institute,
Zimbabwe 5123
Couble, P. 55
Coudriet, D. L. 2985, 3540, 4027
Cougourdan, A. Bonavita 1337
Coulibaly, N. 5132
Coulombe, L. J. 959
Coulon, J. F. 2215
Coulon, M. 2222
Coulson, R. 2559
Coulson, R. 2559
Coulson, R. N. 542, 1581, 2565, 5751
Courtemanch, D. L. 3315
Courtois, J. E. 1084
Cousin, R. 2575, 5084, 5667
Covassi, M. 2080, 6592
Cowell, R. 428
Cox, G. W. 2751

Cox, J. M. 160 Cox, N. R. 5884 Cox, P. D. 3617, 3658 Crăciun, V. 105, 106 Crane, E. 4978 Crankshaw, D. L. 725 Crankshaw, O. 1085 Cranshaw, W. 4632 Cranshaw, W. S. 6231 Crawford, A. M. 4680 Creffield, J. W. 3676, 4129, 4469, 5489 Creighton, C. S. 2984 Creighton, C. S. 2984 Crema, R. 3759, 4165 Cremer, J. E. 1158 Criado, A. Gil 5424 Crisp, P. 2006 Critchley, B. R. 5270 Critchley, U. 5270 Crocker, R. M. 4892 Crocker, R. L. 1064 Crocomo, W. B. 3054 Croft, B. A. 386, 2440, 2932, 3186, 5073 Croizier, G. 6679 3186, 5073
Croizier, G. 6679
Cromroy, H. L. 838, 2323
Crooker, A. R., Jr. 4412
Crosby, D. G. 3201
Cross, D. J. 6662
Cross, E. A. 135
Cross, J. 6202
Cross, J. E. 1428
Cross, J. V. 5117
Cross, W. H. 2037
Crosskey, R. W. 6003
Crouzier, S. 5668
Crowson, R. A. 4732 Crosskey, R. W. 6003
Crouzier, S. 5668
Crowson, R. A. 4732
Crozier, A. J. G. 1218, 1797
Crozier, R. H. 6021
Crump, A. J. 2734
Cruse, H. 4837
Cruz, A. H. 3960
Cruz, J. I. Murillo 1651
Cruz Landim, C. da 2808
Cruz, P. F. N. 4087
Cugier, J. P. 3024
Cullen, J. M. 5940, 5946
Culp, T. W. 2516
Culver, D. C. 552
Culver, M. G. 4784
Cummins, K. W. 162
Cunha, M. C. de Araujo 186
Cunningham, C. 3436
Cunningham, J. C. 6619, 6620
Curry, G. L. 108, 3555
Curry, J. P. 3421, 3436, 3437
Curtis, C. E. 374
Curtis, C. E. 374
Curtis, C. E. 374
Curtis, C. F. 4797
Curtis, R. K. 2932
Custodio, H. A. 323
Cuthbert, F. P., Jr. 2030, 5105
Culter, B. L. 1447
Cutler, J. R. 864
Cymborowski, B. 754, 3280, 6082
Cymorek, S. 6661 Cymorek, S. 6661 Cyprus Agricultural Research Institute 1761 Czajkowska, M. 827, 2996, 2997 2997 Czarnik, W. 1863 Czechowski, W. 117, 127, 6290 6290 Czubik, T. Badowska- 2277, 2775, 3300 Da Costa Lima Neto, V. 1014 Da Fonseca, J. P. 2980 Da Graca, J. V. 1469 Da Rocha, A. D. 3976 Da Silva Ferreira, M. 184 Da Silva Martins, J. F. 4519, 5037, 5566 Da Silva Martins, J. F. 4519, 5037, 5566
Da Silva, P. I., Jr. 185
Da Silveira Pinheiro, B. 5037
Dabbour, A. I. 3818
Dabi, R. K. 5833
Dabrowski, J. 1863
Dabush, S. 467
Dadej, J. 6467
Dadheech, L. N. 5263
Daebeler, F. 2876, 5531
Daftari, A. 3345

Dagar, J. C. 1364 D'Aguilar, J. 2049, 3854, 5136 Dahlman, D. L. 6221 Dahlsten, D. L. 2560, 3066, De Batista, G. C. 5460 De Battisti, R. 1088 De Beer, P. R. 981 De Biase, L. Micieli 1972, 3492, 5592, 5794 3588 Dahm, P. A. 1161, 1394
Dahm, P. A. 1161, 1394
Dahmen, H. J. 6133
Daiber, C. C. 6444
Dailey, P. J. 272
Dakouo, D. 3801
Dakroury, M. S. I. El-834, 835, 836 De Bono, A. 1475 De Bortoli, S. A. 1397 De Camargo, J. M. F. 81 De Castro Teixeira, R. M. 6510 De Cerqueira Gomes, J. 5696 De Chenon, R. Desmier 2937, 4544 835, 836
Dal Monte, G. 3115
Dale, P. S. 6638
Dale, W. T. 5690
Dalgaard, L. 282
Dallmann, S. H. 3272
D'Almeida, R. F. 4855
Daly, P. J. 4213
Dambach, M. 6285
D'Ambrosio, G. 1107, 5800
Dance, M. C. 5089
Dani, R. C. 1407
Daniali, M. 1380
Daniel, M. 3677
Daniels, R. F. 4631
Danielsson, R. 2170
Danish Pest Infestation
Laboratory 2158
Dantsig, E. M. 146
Danzig, E. M. 146
Danzig, E. M. 146
Danzig, E. M. 146
Daoust, D. A. 4895
Daoust, R. A. 2108, 4893
Daquioag, R. D. 6384, 6390
Dar, I. A. 902, 3931
Daramola, A. M. 3654
Darjo, A. 1327
Darrag, M. 3816 Dal Monte, G. 3115 De Clercq, R. 295 De Goffau, L. J. W. 533 De Grotau, L. J. W. 533 De Groot, P. 6619, 6620 De Gutiérrez, B. 6522 De Janvry, G. C. 5713 De Jong, B. J. 2152 De Jonge, J. 200 De Kort, C. A. D. 730, 3257, 3743 De la Paz, A. Rojo 4783
De la Rocque, B. 6355
De Lange, L. 4568
De las Casas, E. 6179
De León M., J. R. 2300, 2301
De Lima, C. P. F. 3627, 3644, 4656, 5415
De Little, D. 2591
De Loof, A. 3277
De Lotto, G. 28, 4205
De Luca, Y. 2602
De Lucena, A. I. T. 5569
De, M. L. 1750, 1751, 1752, 3239
De Marzo, L. 985 De la Paz, A. Rojo 4783 Daramola, A. M. 3654
Darjo, A. 1327
Darrag, M. 3816
Darwesh, S. 6601
Darwish, E. 4338
Darwish, E. T. 4334
Das, L. K. 3048, 3559, 5131, De Marzo, L. 985 De Medina, E. Alonso 1843, 5412 De Meillon, B. 4557 De Mendoza, A. Hermoso 3505 3505
De Merendonk, S. van 198
De Mey, W. 219
De Moraes, G. J. 1656
De Moraes, G. W. G. 183
De Oca, G. Montes 6658
De Oliveira, A. B. 4520
De Oliveira, A. M. 4520
De Oliveira Campos, M. J. 186 Das, P. K. 328
Das, S. C. 3564
Dash, A. P. 2696
Dass, R. 2182, 2343
Daterman, G. E. 536, 4106, 6593, 6594
Datta, B. 798, 1885
Datta, R. 1794
Datta, P. 2012
Daumal, J. 706, 1669
D'Auria, J. M. 2012
Daumal, J. 706, 1669
D'Auria, J. M. 2226
Dauterman, W. C. 1156
Davich, B. 1847
David, C. T. 1259, 1787
David, J. C. 2215, 3333, 4791
David, J. R. 6048
David, J. R. 6048
David, W. A. L. 3159
Davidenko, L. K. 5766
Davidson, R. H. 818
Davies, A. L. 5270
Davies, J. C. 3418, 4146, 6310, 6353, 6427
Davies, N. W. 2803, 3984
Davis, D. R. 15, 2177
Davis, D. R. 15, 2177
Davis, E. J. 581
Davis, F. M. 2290, 3891
Davis, H. G. 354
Davis, R. G. 354
Davis, R. G. 3429
Davison, R. H. 5865
Dawson, A. F. 6636, 6637
Dawson, J. R. 1049
Daxl, R. 484, 4951
Day, K. R. 5147
Daza, M. Muñíz 5424
De Alcocer, Q. B. C. Gottwald De Oliveira Campos, M. J.
186
De Oliveira, J. E. 188
De Palma, V. 2029
De Pontivy, G. R. 3600
De Reggi, M. 2221, 2222
De Reggi, M. L. 746
De Sanabria, G. L. R. 6549
De Santis, L. 4442, 5410, 5507
De Souza Lopes, H. 4726
De Vauchelle, G. 2619
De Villiers, W. M. 6652
De Vita, J. 4975
De Vries, A. W. 1138
De Vroey, C. 1263
De Witte, M. 4701
De Worms, C. G. M. 163, 3770
Deahl, K. L. 2988 186 3770
Deahl, K. L. 2988
Dean, D. A. 4601
Dean, G. J. 4495
Dean, J. M. 6604
Dean, J. P. 4066
Dean, R. L. 6079
Dean, R. W. 382
DeBach, P. 1197, 1346, 1347, 2832, 2841, 2969
DeBald, P. S. 553
DeBaun, J. R. 3226
Debolt, J. W. 5646
DeBoo, R. F. 6630
Decazy, B. 583, 4078
Deeb, S. El- 222
Deeb, W. El- 4379
Deeb, W. M. El- 57
Deeming, J. C. 2899
Deepak Singh, M. B. 6581
Degheele, D. 3802
Degli Angeli, A. 3119
Deighton, J. McCallum- 3659 De Alcocer, Q. B. C. Gottwald 1658 De Almeida, A. Antunes 4122, 4123, 4124 De Almeida, J. R. 1215 De Almeida, P. R. 6498 De Alwis, H. M. 2395 De Araujo Cunha, M. C. 186

uthor Index eitz, L. L. 160, 460, 2083, 4210, 4320, 4694, 4734 Dekker, A. 1138 Del Busto, T. 2967 Del Rivero, J. M. 3388 Delachambre, J. 746, 2221, 4783 Delattre, P. 2981 Delbecque, J. P. 746, 844, Delbecque, J. P. A. 2221 pelbecque, J. P. A. 2221
Deletraz, H. 3813
Deleurance, S. 4782, 5341
Delfinado, M. D. 2762
Dellamonica, P. 6642
Delmas, J. C. 5332
DeLoach, C. J. 4491, 5507
Delobel, B. 1316
Delrio, G. 1473
Delucchi, V. 3587
Delvi, M. R. 4958
DeMilo, A. B. 1166 DeMilo, A. B. 1166 Demolin, G. 4642
Den Boer, L. 5092
Den Heyer, J. 5
Den Hollander, J. 5299 Denis, J. B. 3699 Denlinger, D. L. 4258, 6077 Denlinger, D. L. 4258, 6077 Denmark, H. A. 372, 5141 Dennis, D. S. 3350 Denno, R. F. 925, 4528, 4912 Denton, W. H. 2002 Department of Agricultural Technical Services, South Africa 695 Department of Agriculture for Northern Ireland, United Kingdom 4184 Department of Agriculture, Sarawak 2651, 5968 Department of Agriculture, Western Australia 692 Department of Scientific and Department of Scientific and Industrial Research, New Zealand 1760, 4143
DePew, L. J. 6167
Der Poel, P. J. G. Verschoor-Van 195
Derache, R. 679
Dermott, T. 3642
Dermott, W. 5969
Derr, J. A. 113, 6099
Derron, J. 5651
Desai, M. V. 6572
Desai, N. D. 1613
Descoins, C. 1731, 3509, 3988
Descoi, K. 6459 Descoins, C. 1731, 3509, 3988 Descö, K. 6459 DeShane, N. D. 5894 Deshefy, G. S. 1562 Deshmukh, P. D. 1820, 3919, 3947, 3955, 3957 Deshmukh, S. D. 5710, 5712 Deshmukh, V. B. 3220 Desmarchelier, J. M. 1115, 1611, 3635, 3639 Desmier de Chenon, R. 2937, Desouky, Ammar El- 889 Despax, R. 6265 Dessouki, S. A. El- 3045 Dessouki, S. A. El-DeTar, J. E. 2435 Dethe, M. D. 5509 Dethier, V. G. 90, 4892, 5994 Deting, J. K. 1940 Detroy, R. W. 3684, 3685 Deul, D. H. 2152 Deuse, J. P. L. 3146, 4114 Deutscher Pflanzenschutzdienst 2162 2162 2162
Devaiah, M. C. 5675
Devauchelle, G. 5232, 6683
Devezeaux, D. 2250
DeVilbiss, E. D. 1676
Devillers, J. F. 2250
Devonshire, A. L. 1694, 6718
Devynck, J. M. 6708 Dewan, R. S. 6512 Dewhurst, C. F. 4496 Deyanov, T. 5846 Dhaduti, S. G. 5006 D'Haese, J. 1194

Dhaliwal, G. S. 907, 2375, 3894, 3933, 6373, 6374, 6415, 6422 Dhar, P. D. 4142 Dhari, K. 2281, 4017 Dhawan, A. K. 2039, 2538, 3037, 5127, 6560, 6563 Dhawn, A. K. 4068 Dhillon, D. 6034 Dhillon, D. 6034
Dhillon, S. S. 2677
Dhingra, S. 1712
Dhoble, S. Y. 5509
Dhumal, V. S. 5643
Di Martino, E. 986
Diakonoff, A. 700
Diarrassouba, S. 4543 Dias, A. M. Penteado- 3073 Dias, M. M. 3074 Diatloff, G. 1907 Díaz Castro, G. 2306, 2307 Díaz, H. Jiménez 1672 Díaz, O. Viamontes 3953 Díaz, O. Viamontes 3953
Díaz, R. O. 1025
Dibble, J. E. 944, 1488
Dicke, M. 200
Dickens, J. C. 3580, 4238
Dicker, G. H. L. 5611
Dickerson, W. A. 459
Dickler, E. 1986
Dickson, J. G. 2557
Dickson, R. C. 1426
Dieckmann, L. 1763, 1764, 3603, 4203 3603, 4203 3603, 4203 Diefenthaler, C. M. H. 1908 Dierks, A. Z. 5185 Dietz, A. 1165 Diez, M. 4964 Dijke, J. F. van 4701 Dilday, R. H. 2515, 2518, 2534 2534
Dimetry, N. Z. 4344, 4345, 4367
Dimić, N. 6433
Dina, S. G. 5104
Diniz, J. L. Machado 190
Dinkins, R. L. 1835
Dionísio, A. 1544, 1545, 1546, 2029, 3016 Dippenaar Schoeman, A. S. 6328 6328
Dirimanov, M. 1452
Dirks, V. A. 4053
Dirsh, V. M. 233
Disney, R. H. L. 4996, 4997
Disthaporn, S. 325, 3406
Dittrich, V. 2137
Divakar, B. J. 274
Dive, D. 6708
Divekar, V. V. 2547
Dively, G. P. 4887, 4891
Dively, G. P., II 4894
Dix, M. E. 565, 1569, 3085, 6202 6202 6202 Dixit, A. K. 1521, 3012, 6512 Dixon, A. F. G. 5156, 6591 Dixon, G. M. 1947, 2920 Dixon, W. N. 524, 5162 Djavaheri, M. 3365 Djeddour, K. 1326 Djeddour, K. 1326 Dmoch, J. 1866, 2993, 2994 Doane, C. C. 1745 Doane, J. F. 299 Doberski, J. W. 4626 Dobias, J. 5234 Dobie, P. 5222 Dobrat, W. 2131 Dobroserdov, S. G. 380 Dodds, J. A. 4898 Dodia, J. F. 3905, 3935 Doğanlar, M. 385, 950, 951, 961, 1065, 1974 Dogra, G. S. 945, 2930, 5600 Dogra, G. S. 945, 2930, 5600 Dohke, K. 4224 Dohke, K. 4224
Döhring, E. 3174
Doig, M. V. 5985
Doksh, H. A. El- 490, 5723
Doksh, R. A. El- 225
Dolgin, M. M. 1343
Dolin, V. G. 2655
Dolinski, M. G. 2198
Dolling, W. R. 698
Dollinger, E. J. 6162
Dolores, A. C. 443

3122, 6035 Don, B. A. C. 5159 Donaldson, J. M. I. 397 Dondale, C. D. 299, 387, 1880, 2816 Dongre, T. K. 5716 Donia, M. B. Abou- 4359 Donoso M., M. 5176 Donovan, M. 5925 Doolittle, R. E. 1569, 4763, A764, 6058, 6202
Doom, D. 5772
Doong, F. X. 2235
Dooru, J. M. van 3251
Doppelreiter, H. 6663
Doraiswamy, P. C. 5751
Dores, R. M. 3272
Doreste S., E. 6475, 6543, 6544 6544 Doroshenko, N. P. 5058 Dorough, H. W. 3199 Dörtbudak, Y. 1389 Dortland, J. F. 2715, 4780 Dortland, J. F. 2715, 4780 Dos Santos, C. E. 1215, 3288 Dosoy, N. F. 5058 Doss, S. A. 4351 Douglas, J. M. 119 Douwes, P. 3725 Dov, Y. Ben- 399, 704, 6012 Dover, M. J. 386 Dowd, R. 1889 Dowd, D. J. O' 4972 Dowell, R. V. 975, 1465, 2926, 2975, 2979, 3488, 4005, 4566 4005, 4566 Downing, K. B. 554 Downing, R. S. 2434 Drabek, J. 652 Drabek, J. 652
Draber-Mońko, A. 3342
Drake, K. G. D. 1681
Drane, A. B. 3093
Dransfield, R. D. 2886
Drapatyĭ, N. A. 6539
Dray, F. 2218
Drea, J. J., Jr. 3592
Drees, B. M. 312
Drew, R. A. I. 701, 3701
Dreyer, D. L. 2486
Drisesche, R. G. van 355
Driver, G. Cooper- 5040 Driver, G. Cooper- 5040 Drlić, M. 6723 Dring, M. 6723 Drongelen, W. van 4775, 6038 Drooz, A. T. 1071, 5214 Dropkin, J. A. 784 Droste, T. 2976 Drouin, J. A. 1596 Druzhelyubova, T. S. 3378 Du Toit, G. D. G. 5867, 5874, 5877, Du Toit, G. D. G. 5867, 5874
5877
Du Toit, W. J. 1318
Duangploy, S. 451
Duarte, R. G. 6047
Dubale, M. S. 4708
Dubé, J. 4836
Dubey, O. P. 281
Dubois, M. P. 2700
Dubois-Martin, D. 6348
Dubois, N. R. 4895
Dubovskiï, G. K. 2346
Duckworth, W. D. 4850
Dudal, Y. 6699
Dudash, A. V. 58, 5316
Dudek, T. A. 6245
Dudnik, G. F. 1920
Duffey, J. E. 2548
Duffey, S. S. 251, 1030, 5443
Duffus, J. E. 3003
Dugdale, J. S. 2149
Duggan, J. J. 5922
Duggan, R. E. 3210 5877 Duggan, J. J. 5922
Duggan, R. E. 3210
Duke, E. J. 3258, 3259
Duke, K. M. 3281
Dull, C. W. 1589
Dulmage, H. T. 4807
Duman, J. G. 2684
Dumbre, R. B. 6375
Dumser, J. B. 5440, 6076
Dunbar, D. 5046
Dunbier, M. W. 3453, 5882
Dunkel, F. V. 6175
Dunkelblum, E. 4061, 4145, 4698, 5724

Domenichini, G. 3108, 3110,

Dunlap, M. J. 505 Dunn, C. L. 2527 Dunne, R. 5925 Dunning, D. C. 2244 Dunphy, G. B. 612 Dupont, L. M. 6 Duporte, E. M. 6289 Dupont, L. M. 6
Duponte, E. M. 6289
Duran, M. 1389
DuRant, J. A. 2897, 3552
Durante, M. P. Mier 3780
Duranton, J. F. 5455
Durkić, J. 2869
Dürr, J. R. 6360
Durzan, D. J. 5777
Dusanic, L. 3156
Dusch, M. E. 4160
Dušek, J. 3346
Duthoit, J. L. 2938
Dutkowski, A. B. 2626
Dutrieu, J. 4233, 5323
Dutt, K. V. L. N. 3913
Dutta, G. 6653
Dutta, S. 2820, 6397
Dutta, S. K. 4747
Dutton, A. J. 5985
Duyn, J. W. van 460, 1003, 1509, 1510, 2485, 4589
Dvirnyak, P. I. 5249
Dvoryankina, V. A. 3374
Dwivedi, Y. N. 4202
Dwyer, L. A. 5422
Dyadechko, N. P. 5464
Dyck, L. P. van 6363
Dyck, V. A. 2381, 2384
Dyer, M. I. 1940 Dyk, L. P. van 981

Dyke, C. G. van 1331 Dyurich, G. F. 5096 Dzhambazishvili, Ya. S. Dzhanokmen, K. A. 2664 Dzhanokmen, K. K. 5791 Dzhivilekov, G. 375 Eady, R. D. 713 Earle, M. Fitz- 6147 Earle, N. W. 2545, 2723, 3551, 3757 East African Agriculture and East African Agriculture and Forestry Research Organization, Kenya 2653 East, R. 1430, 5876 Easterbrook, M. A. 5056 Eastman, C. E. 4026 Eastop, V. F. 712, 4206 Eastwood, L. 2246 Easwaramoorthy, S. 3010. 5021, 5236
Eaton, J. L. 1778, 5420
Eberhart, S. A. 6366
Ebersold, H. R. 6685
Ebert, W. 2866
Ebing, W. 2129
Echols, G. Walter- 6215 6215 Eckenrode, C. J. 469, 4047 Ecobichon, D. J. 3198 Edgar, J. A. 2693, 5450 Edge, V. E. 822 Edgerly, J. S. 2201, 2961 Edinburgh School of Agriculture, United Kingdom 4175 Edmonds, W. D. 1766 Edmunds, M. 2730 Edson, K. M. 2672, 3691 Edson, L. 2559 Edwards, C. A. 2780, 5025 Edwards, C. R. 5673, 6189, 6194, 6197 Edwards, J. C. 6618 Edwards, T. L. 5147 Egdeshman, N. P. 311 Eggermann, W. 6104 Eggerraan, W. 6104
Eggers-Schumacher, H. A. 2195, 3301
Eggert, A. N. 3344
Egorov, A. B. 152
Eguagie, W. E. 1684
Egwaatu, R. I. 1016, 3008
Ehler, L. E. 833, 3061, 3062
Eichhorn, O. 1559, 3570
Eichler, W. 120, 121
Eichlin, T. D. 4850
Eid, M. A. A. 4366, 4370

Eid, M. M. A. 4369 Eidmann, H. 3078 Eidmann, H. H. 5769 Eidt, D. C. 6621 Eikenbary, R. D. 1970, 2782, 2932, 3343, 3882, 6309 Einhorn, J. 3480 Eipel, E. 2617 Eivaz, J. 4581 Eivaz, J. 4581
Ekasing, M. 439
Ekbom, B. 5645
Ekbom, B. S. 3764
Ekins, W. L. 4939
Ekk, I. 2258
Ekka, I. 807
El-Assar, M. R. 4389
El-Assar, M. R. S. 6705
El-Assar, R. 4365
El-Attal, Z. M. 4704
El-Badry, E. A. 2535
El-Bahrawi, A. 227, 3798
El-Ballal, A. S. 4401
El-Banhawy, E. M. 1911, 2334
El-Bernawy, Z. A. 223, 4381, 4382 4382 4382 El-Dakroury, M. S. I. 834, 835, 836 El-Deeb, S. 222 El-Deeb, W. 4379 El-Deeb, W. M. 57 El-Desouky Ammar 889 El-Dessouki, S. A. 3045 El-Dessouki, S. A. 3045
El-Doksh, H. A. 490, 5723
El-Doksh, R. A. 225
El-Etreby, A. A. 2536
El-Fattah, M. I. Abd 4477
El-Fiki, S. A. 3215
El-Garyar, F. 4365, 5717
El-Gayar, F. 4365, 5717
El-Gayar, F. H. 487, 5718
El-Gazzar, L. M. 2229, 3286
El-Guindy, M. A. 57, 1149, 4156, 4330, 6705
El-Hady, M. 2536
El-Halawany, M. E. S. 989
El-Halfawy, M. A. 1108, 2598, 2607, 2608, 2609
El-Heneidy, A. H. 834, 835, 836 El-Herrawie, M. A. 4392 El-Idrissi, M. A. 968 El-Idrissi, M. A. Ammari El-Kady, M. H. 952, 953, 978, 2450 2450 El-Keie, I. A. 4065 El-Khishin, M. K. 4371 El-Kifl, A. H. 4400 El-Lakwah, F. 673 El-Malki, K. G. 1043 El-Miniawi, S. F. 4350, 4351 El-Minshawy, A. 3815, 4338 El-Minshawy, A. M. 30, 4334, 5426 5426 5426 El-Monsef, S. A. 2536 El-Nabawi, A. 2271 El-Nahal, A. K. 4346 El-Nakady, A. M. N. 4369 El-Nakday, A. M. N. 4370 El-Nawawy, A. S. 222, 3816 El-Okda, M. M. K. 1140, 4389 4389 El-Rahman, A. A. 4062, 4342 El-Rahman, A. S. M. A. 1040, 1041
El-Refai, A. A. 1149
El-Saadany, G. 2535, 4327, 4328, 4329, 4331, 4343, 4352, 4355
El-Sattar, M. M. A. 1149
El-Sawaf, S. K. 30, 4398, 5824
El-Sayed, A. M. K. 2634, 4339, 4340
El-Sayed, El. 4374
El-Sayed, M. M. 4364, 4392
El-Sebae, A. H. 226, 486, 490, 680, 2634, 3215, 3821, 4394, 5723, 5986, 6705, 6717
El-Shaarawy, M. F. 1898, 1899, 1900
El-Shafei, S. M. 4326
El-Sherif, S. M. 4326 1041

El-Tantawy, M. A. 4366, 4380, 4387, 4391, 4393, El-Wahed, S. A. A. 1043. 2536 Ela, S. M. Abul- 3149 Elam, W. W. 1098 Elamayem, M. A. 5986, 6721 Elam, W. W. 1098
Elamayem, M. A. 5986, 6721
Elamayem, M. Abu 6717
Elamayem, M. M. Abou- 3821
Elamayem, M. M. Abou- 3821
Elamayem, M. M. Abu- 5983
Elbert, A. 2217, 3105, 4659
Elder, R. J. 2482
Eldridge, D. W. 1798
Elepfandt, A. 750
Elewa, M. A. 3819, 3820
Elewa, M. A. S. 4389
Elgar, M. R. Abo- 681
Elghar, M. R. Abo- 681
Elghar, M. R. Abo- 681
Elghar, M. P. 4065, 4381, 4382
Elgolli, N. 1325
Elikawela, Y. 2395
Eliraz, A. 1195, 1196
Elikady, M. H. 989
Ellabany, M. 227
Elliger, C. A. 304, 5029, 5266
Ellington, C. P. 1846, 4760
Elliott, H. J. 5774
Elliott, M. 654, 3706
Elliott, M. 4930
Elliott, R. M. 4686
Elliott, W. M. 4053
Ellis, C. R. 2635, 5045, 6216, 6348
Ellis, H. C. 2932
Ellis, P. R. 469, 2006, 4047 6348
Ellis, H. C. 2932
Ellis, P. R. 469, 2006, 4047
Ellistone, J. 1906
Ellsbury, M. M. 1428
Elmer, H. S. 5619, 6489
Elmes, G. W. 122
Els, J. M. 6651, 6652
Elton, R. A. 2817
Eluwa, M. C. 2986
Elzinga, R. J. 4414
Emberson, R. M. 4324
Emden, H. F. van 5348, 6086, 6350
Emel'yanov, N. A. 5528 6350
Emel'yanov, N. A. 5528
Emmerich, H. 3279
Emmet, A. M. 163, 2789
Emori, T. 3468
Emora, K. 332, 849
Endo, Y. 3689, 5851
Engel, H. 4431
Engelhard, A. W. 4613
Engelmann, F. 2190
Engst, R. 3203
Enicé-Moisescu, D. 872
Ennis, T. J. 2772 Enica-Moisescu, D. 872
Ennis, T. J. 2772
Ennis, T. J. 2772
Entomology Department,
International Rice Research
Institute 2374
Epstein, A. H. 3087
Epstein, H. M. 3281
Erakay, S. 584
Erbach, D. 6264
Erdmen H. F. 3631 Erakay, S. 584
Erbach, D. 6264
Erdmann, H. E. 3631
Eremenko, O. V. 5022
Erkin, E. 6482
Ermolaev, G. F. 6299
Ermolaev, G. F. 6299
Ermolaev, V. P. 161
Erozhina, I. L. 2183
Erskine, A. J. 1582
Erven, H. 1432
Erwin, T. L. 3338
Esbjerg, P. 6270
Esenther, G. R. 4467
Eshbaugh, E. L. 2428
Eskafi, F. M. 6141
Eskandari, F. 2028
Español, F. 2087, 2754
Espinoza, A. S. 1961
Esponda, P. 4965
Essa, N. H. 1108, 2598
Essono, B. 583
Estefanel, V. 2014
Estesen, B. J. 648
Estrada, L. Castresana Estrada, L. Castresana 246 Estrada, R. 4952 Etheridge, P. 244 Etienne, J. 694, 5077 Etienne, K. Naumann- 2062

Etiévant, P. 5317 Eto, M. 653 Etreby, A. A. El- 2536 European and Mediterranean
Plant Protection Organization 635, 4703, 5970, 6696 Evans, C. S. 6271
Evans, D. A. 667, 1734
Evans, D. E. 1610, 3642, 3674
Evans, H. A. 1848
Evans, H. C. 5363
Evans, H. E. 3847
Evans, P. H. 4236
Evans, P. W. C. 3140, 3141
Evans, R. E. 4996
Evans, W. G. 6073, 6598
Evenhuis, H. H. 215
Everett, T. D. 786
Evershed, R. P. 4235
Everson, P. 4999
Everton, I. J. 2224
Eves, J. D. 354
Ewart, W. H. 5619, 6489
Ewer, D. W. 2794
Ewing, A. W. 3739
Experiment Station, Hawaiian
Sugar Planters' Association
2355 Evans, C. S. 6271 Ezell, J. E. 373 Ezhikov, I. I. 2187 Fabre, J. P. 1598 Faculteit van de Landbouwwetenschappen
Gent 192, 3795
Fadare, T. A. 1678, 6566
Faeth, S. H. 6627
Fagan, R. 1545, 1546, 3016
Fagen, R. M. 2805
Fagoonee, I. 3330
Fagundes, A. C. 5527
Fahmy, H. S. M. 4395, 4396
Fahmy, M. A. H. 680
Fairbairn, J. W. 6344
Fairmaire, H. 1833
Fairweather, P. 5450
Faith, D. P. 3101, 5160
Falana, S. T. 1686
Falcon, L. A. 5895
Fales, H. M. 6294
Fal'kovich, M. I. 1304
Fallon, A. M. 4241
Fancher, L. J. 6676
Fang, J. L. 2467
Fanjul, C. López-2604, 4817
Fannah, S. J. 6417
Fargo, W. S. 542, 2565
Fargues, J. 4135, 6672, 6680
Farooqi, S. I. 702
Farriars, M. 623
Farrier, M. H. 573
Farris, M. 6223
Farrier, M. H. 573
Farris, M. 6223
Farris, S. H. 6603
Farris, T. N. 6309
Farrow, R. A. 823, 5458
Farthing, B. F. 456
Fast, P. G. 5857
Fastré, R. Vanhaelen-2153
Fathah, M. I. Abdel-4328,
4330, 4334, 4338, 4352,
4353, 4354, 4355
Faucon, J. P. 1878
Faulkner, P. 3154, 4680
Fauquet, C. 3028
Faust, R. M. 611
Fauvel, G. 379
Fayad, Y. H. 1042
Federal Research Institute for Dairy Science Liebefeld-Bern, Switzerland 4709
Federic, B. A. 2291
Fedorenko, V. I. 2022
Fedorko, V. I. 2022
Fedorko, J. 6536
Feeny, P. 4283
Feijn, H. R. 1934
Fein, B. L. 4896
Feldman, R. M. 108, 3555

Feldmann, A. M. 769 Fellay, D. 1456 Felsot, A. 1161 Fenson, A. 1101 Fenemore, P. G. 2025 Feng, H. T. 908, 5568, 6392 Fennah, R. G. 16, 707, 803 Ferguson, A. M. 5883 Ferguson, D. C. 5284 Ferguson, D. C. 3284 Ferguson, M. 4533 Fernández Vega, B. 6480 Fernando, H. 2395 Fernando, H. E. 324 Ferrar, A. 1882 Ferrara, G. 1107, 5800 Ferrari, R. 1476 Ferrari, R. 1476 Ferreira d'Almeida, R. Ferreira d'Almeida, R. 4855
Ferreira, E. 3966, 5566
Ferreira, G. A. L. 3907
Ferreira, I. 3318
Ferreira, M. C. 3727
Ferreira, M. da Silva 184
Ferreira, P. S. F. 4854
Ferrer, R. 5507
Ferro, D. N. 2259, 4288, 4324
Ferron, P. 3164
Fery, R. L. 2030, 5105
Fet, V. Ya. 3460
Feuer, R. 3960
Feuer, R. 3960
Fichoux, Y. le 6642
Field, R. P. 6460
Figueroa, W. Lizárraga 1648, 1662
Fiki, S. A. El- 3215 1662
Fiki, S. A. El- 3215
Filipova, N. 1964
Filipova, N. 1964
Filipova, N. A. 3513
Fimiani, P. 2446, 5377
Finch, S. 687
Finke, M. D. 6258
Finlay, A. H. 5060
Finlayson, T. 6327
Finney, J. R. 531
Firke, P. V. 2408
Fischbach, E. D. 5728
Fischer, M. 2836
Fischer, S. 6546
Fischlin, A. 3585, 3586
Fish, D. 3052
Fish, R. H. 2199, 5775 Fish, D. 3052 Fish, R. H. 2199, 5775 Fisher, C. W. 4705 Fisher, J. R. 4579, 4580, 4582 Fisher, M. 1874 Fisher, R. W. 3998 Fitton, M. G. 4211 Fitz-Earle, M. 6147 Fitzgerald, T. D. 2201, 2961 Fitzpatrick, G. 4566, 4567 Fitzpatrick, G. E. 975, 2975, 3488 3488
Fiume, F. 5585
Fiuza Ferriera, P. S. 4854
Flack, R. D. 3662
Flaherty, B. R. 2099
Flechtmann, C. H. W. 861,
4520, 5696, 5701
Fleet, R. R. 2557, 2561
Fleming, D. A. 5309
Flessel, J. K. 6241
Fletcher, B. S. 2239, 3983
Fletcher, D. S. 5295, 5296
Fletcher, J. D. 5049
Fletcher, K. E. 6509
Fletcher, K. E. 6509
Fletcher, L. W. 3656, 3662
Fletcher, M. J. 2929, 3248
Fleurat Lessard, F. 5315
Flinn, J. C. 4585
Flint, H. M. 4072, 4073, 5273
Floor, J. 6238 Fiume, F. 5585 Floor, J. 6238 Florida Entomological Society Florida Entomological Societ 6102 Floru, S. 5582, 5700 Flück, V. 652 Foda, M. E. 5581 Foelix, R. F. 2810 Foerster, L. A. 1698, 5672 Fogato, W. 4103, 5799 Foltz, J. L. 542, 2565 Fomenko, R. B. 5380 Fonseca, J. P. da 2980 Fonseca, J. Pulido 6523 Food and Agriculture Organization 3709, 3710 Organization 3709, 3710, 3711, 3712, 3713, 3714, 3715, 4518, 5283

Dot, M. A. 4045
Dote, B. A. 6340
Dott, W. H. 3792
Dottit, R. 551
Drd, E. B. 4220
Drd, L. B. 5171, 5178
Drd, L. T. 2789
Drd, M. G. 4706
Drest Research Institute, New
Zealand 5778
Drest Service, United States
Department of Agriculture
2064
Drestry Commission, United
Kingdom 6602
Drestry Service, Canada 6616
Drgash, A. J. 4897, 4910,
4926
Drnasieri, J. L. 4003
Drrest, T. G. 6102
Drester, N. 2100, 4541
Drsberg, A. 5953
Drster, R. L. S. 5049
Drs, A. 368, 1470
Drster, D. E. 248
Drster, J. 6156
Drster, G. N. 4049, 4050
Drster, J. 6154
Drster, J. 6154
Drster, R. E. 3889, 4026, 6250
Drster, R. N. 1257
Dredar, R. 267
Durche, J. 6053
Durmaux, M. N. 6708
Dramier, D. 694
Drame, A. 590
Dr., L. 4590
Dr., L. 4590
Dr., L. 4590
Dr. L. Stuttut de Recherches
Agronomiques Tropicales et
des Cultures Vivrières 693,
5496

rance, Institut Technique des Céréales et des Fourrages 1609
rance, INVUFLEC 5666
rancis Hodgson 2650
rancis, J. 4906
ranco, J. F. 1544, 1545, 1546, 2029, 3016
rancois, J. 4227
ranczyk, M. Pankanin- 3520
randij, H. 4128
ranji, H. 5224
rankenhuyzen, A. van 534, 966, 1026, 1980, 2067
rankenhuyzen, K. van 1594
rankenhuyzen, K. van 1594
rankenhuyzen, K. van 1594
rankenhuyzen, K. van 1594
ranz, E. H. 2890
ranz, H. 9
ranz, J. M. 5248
ranzmann, B. A. 930, 1700, 2460, 6499
raser, B. M. 3127
rawley, J. P. 3210
razee, J. R. 2629
razer, B. D. 1506, 3991
rear, D. S. 3545
rech, D. 6599
ree, J. B. 4573
reedman, B. L. 1567
reeman, B. L. 1567
reeman, H. P. 4312, 5995
reeman, W. H. 6391
reier, B. 2877, 6362
reitag, R. 19, 136
remuth, J. 4638
rench, J. R. J. 3089
rench, J. V. 3500, 5631, 6488

French, N. 5044 French, R. A. 1946, 5866, 6737 Freriks, J. M. 534 Frerot, B. 1731, 3480 Fresneau, D. 2328 Fresneau, D. 2328 Freuler, J. 6059, 6546 Freyman, S. 357 Friars, G. W. 5349 Fried, M. 2725 Friedel, T. 4221, 6071 Friedlander, A. 2605, 4159 Fries, R. D. 618, 4876 Friese, D. D. 920 Frilli, F. 2446, 3123, 3341 Frischknecht, M. 1982 Fritzsche, R. 4749 Frongillo, E. A., Jr. 2711, 2812 Frost. C. 229 2812 Frost, C. 229 Frost, S. W. 4545 Fry, K. E. 2522, 2523, 2533 Fuchs, E. 5683 Fuchs, T. W. 288, 1914, 3358 Fudalevich-Nemchik, V. 1192 Fuester, R. W. 3592 Fuhremann, T. W. 3884 Führer, E. 2581, 3340, 4645, 6311 6311 Fujii, H. 1204, 1205, 1206, Fujii, H. 1204, 1205, 1206, 1207
Fujiie, A. 3482, 6471
Fujikawa, H. 6584
Fujimori, H. 1240
Fujimori, M. 3722
Fujita, K. 4458, 6120
Fujita, T. 1151, 1696
Fujiwara, S. 729
Fujiyama, S. 2728
Fujiyoshi, N. 4765, 5245, 6681
Fukamachi, S. 1300
Fukami, H. 5325
Fukami, J. 894, 1813
Fukumachi, S. 1255
Fukuto, T. R. 2139
Fukuzaki, Y. 729
Fulde, S. 5972
Fullmer, O. H. 3904
Fulton, J. P. 2007
Funabasama, K. 462
Funasaki, G. Y. 4695
Funke, B. R. 3324
Furniss, M. M. 525, 1571, 4090, 5738
Furth, D. G. 4020, 6031
Furuno, T. 1293
Furusawa, K. 5008
Furusawa, T. 3169
Futuyma, D. J. 1097, 5197, 5742
Fuxa, J. R. 1626, 2041 1207 5742 Fuxa, J. R. 1626, 2041 Fuzeau-Braesch, S. 1325, 1326, 2215, 2220, 3333, Fye, R. E. 104, 491, 492, 5720 Fye, R. L. 2126 Fytizas, E. 208, 3803, 3804, 4163 4163
Gaaboub, I. A. 3815
Gaber, E. S. 2673
Gabrashanski, P. 5846
Gaddalah, A. I. 4364
Gäde, G. 2713
Gafurova, V. L. 1637
Gage, E. V. 1549
Gage, S. H. 6140
Gage, V. 611
Gagne, J. A. 543, 2052, 2565, 5751
Gagné, W. C. 1829 5751
Gagné, W. C. 1829
Gaikwad, B. B. 1365
Gaikwad, B. B. 2483
Gajendra Singh 990
Galani, G. 5662
Galbreath, R. A. 4321
Gale, R. D. 5779, 5788
Galera, E. 2644
Galetenko, S. M. 2957
Galford, J. R. 1102
Galhotra, R. 2547
Galichet, P. F. 1258
Galileo, M. H. M. 1514, 1515, 6521

Galindo R., A. I. 1647 Galipeau, P. R. 615 Gall, G. A. E. 1117 Galipeau, P. R. 615
Gall, G. A. E. 1117
Gallagher, E. M. 4924
Gallego, C. 3366
Gallet, G. 2603
Gallit, A. 3116
Gallo, D. 6426
Gallois, D. 2186
Gallois, M. 3480, 3509
Gallun, R. L. 297
Galvez, G. 1008
Galvis, C. 6333
Gambia, Ministry of
Agriculture and Natural
Resources 4182
Gamboa, G. J. 784
Gamez, R. 1011, 5532
Gammon, D. W. 6715
Gamo, T. 1240
Ganchev, K. 5845
Gande, A. R. 1809
Gandhi, J. R. 1542, 1677, 3748 3748 Ganeswara Rao, A. 2379 Gangopadhaya, S. 1407 Gangrade, G. A. 3919, 3947, 3955, 3957, 5106 Gangwar, S. K. 2378, 3227, 5697 Gannaway, J. R. 3554
Gannaway, J. R. 3554
Gansner, D. A. 553, 568, 1103
Gao, T. X. 5145
Gapanova, V. S. 602
Gar, K. A. 6712
Gara B., R. 5176
Gara, R. I. 1073, 1074
Garbarczyk, H. 3449
García-Baudin, J. M. 3871
García, C. 980, 1620, 3514, 3890, 5235
García, D. Brito 3953
García, F. 6658
García, R. 5346
García Roa, F. 6570 Garcia, R. 5346
García Roa, F. 6570
Gardiner, B. O. C. 5333
Gardner, W. A. 59, 3720
Garg, A. K. 2272, 2509, 5098
Garg, D. O. 4501, 5572
Garg, R. 3263, 4266
Garhy, A. El- 4352
Garlo, A. M. 2632
Garnett, W. B. 1341
Garnsey, S. M. 4690
Garrett, L. C. 3656
Garrido, A. 2967, 3388, 3444
Gary, W. J. 306
Garza González, A. 1666
Garza González, E. 1652
Gasanov, O. G. 2238 Garza González, E. 1652 Gasanov, O. G. 2238 Gaspar, C. 123 Gast, R. T. 1847 Gaston, J. Q. 6678 Gaston, L. K. 2202, 6132 Gatehouse, A. G. 799 Gatoria, G. S. 2039, 6561 Gaudchau, M. 3521 Gaughan, L. C. 656 Gaugler, R. 2610, 3695 Gauld, I. D. 3844, 4211, 4460, 4461 Gauld, I. D. 3844, 4211, 4460, 4461
Gaumont, R. 3611
Gavi Gowda 886
Gawande, R. B. 2915, 3220
Gayar, F. El. 4365, 5717
Gayar, F. H. El. 487, 5718
Gaylor, M. J. 2234
Gayubo, S. F. 3828, 3835
Gazzar, L. M. El. 2229, 3286
Gebhardt, M. R. 459
Geeraerts, J. 2153
Geertsema, H. 5169
Geier, P. W. 1458, 1459
Geier, P. W. 1458, 1459
Geiser, R. 2076, 3571
Geissbühler, H. 649, 3192
Gellatley, J. G. 5960
Gelosi, A. 3114
Genis, N. de L. 6328
Gennatas, J. 4702
Gent, Faculteit van de 4461 Gent, Faculteit van de Landbouwwetenschappen 192, 3795 Gentili, P. A. 5732

Gentry, C. R. 1461, 6461 Geoffrion, R. 470, 2941, 2951, 5065, 5601 George, B. W. 1922, 5726 George, D. A. 392 George, D. A. 392
George, J. A. 2180
George, K. S. 5025
George, K. S. 5025
George, K. V. 283, 6343
George, M. 3763
Georghiou, G. 4954
Georgis, R. 5752
Gera, A. 5099
Gera, R. 5705
Gerard, P. J. 2920, 5869
Gerber, G. H. 3035
Gerber, H. S. 632
Gerginov, L. 314
Gerling, D. 1037, 6567
German Federal Republic,
Plant Protection Service
2162 Priant Protection Service 2162
Germanov, A. 1226
Germeck, E. B. 1381
Gersch, M. 6085
Gershenzon, Z. S. 6010
Gerson, U. 4204
Gertsch, W. J. 2814
Gertsson, C. A. 5584
Gesner, M. 3357
Getzin, L. W. 5271
Gewecke, M. 45, 821, 2214
Gfeller, W. 3663
Ghadir, M. F. Abou- 4046
Ghair, M. F. Abou- 4046
Ghair, M. F. Abou- 4046
Ghair, M. F. Abou- 4072
Ghanim, A. A. 5721, 5722
Ghanshani, P. 4819
Gharib, B. 955, 956
Ghatak, U. R. 685
Ghatak, U. R. 685
Ghatak, U. R. 685 2162 Ghauri, M. S. K. 24, 334, 6386, 6515 Ghidiu, G. M. 878 Ghobrial, A. 4384 Ghobrial, E. 870 Gholson, L. E. 876 Ghorpade, K. D. 1886, 1887, 1888, 2821 Ghosh, A. 1931, 3937 Ghosh, A. B. 3405, 3915, 3925, 3925, 5031 Ghosh, A. K. 4979 Ghosh, M. R. 2738, 3777, 6538 6538 Ghosh, S. N. 2506 Ghoshi, M. R. 1834 Ghouri, A. S. K. 88 Giacometti, R. 5633 Ghouri, A. S. K. 882 Giacometti, R. 5633 Giannotti, D. 5836 Giannotti, J. 5836 Giauffret, A. 1878 Gibbons, J. R. H. 4646 Gibbons, R. W. 2020 Gibbs, K. E. 3315 Gibson, G. A. P. 1855 Gibson, M. A. 4161 Giersmehl, I. 2939 Giese, R. L. 6209 Gieselmann, M. J. 3504, 5276, 6731 6731
Giesmann, K. J. 3131
Giess, M. C. 4750
Gijswijt, M. J. 2152
Gil Criado, A. 5424
Gilbert, D. G. 5320
Gilbert, L. E. 5311
Gilbert, L. I. 1789, 4260, 6079, 6084
Gilchrist, W. L. R. E. 16:
Gilliomee, J. H. 1990
Gill, K. 5277
Gill, K. M. 6639 6731 163 Gill, K. 5277 Gill, K. M. 6639 Gill, K. S. 5024, 6093 Gill, P. D. 777 Gill, P. S. 3933, 6422 Gill, R. J. 5140 Gillenwater, H. B. 3126, 3636, 4115 Gillespie, D. R. Gillier, P. 3145 Gillott, C. 764 6327

848

Gilmour, A. R. 5576
Gilstrap, F. E. 920, 2917
Gilyarov, M. S. 2187, 6689
Gingery, R. E. 2892
Giorbelidze, A. A. 2968
Giordana, B. 6067
Girard, J. E. 5648
Girardie, J. 2700, 4966
Giray, H. 1311
Girish, G. K. 3623, 6655
Girling, D. J. 1363
Girolami, V. 1088, 1472
Giron, A. 4647
Giustina, W. della 3699
Given, B. B. 2042
Givens, R. 247
Givord, L. 5092
Gladwell, G. L. 5139
Glaeser, G. 1755, 1756
Glancey, B. M. 2366
Glaser, A. E. 37
Glass, E. H. 382
Glasser, R. F. 1679
Glasshouse Crops Research
Institute, United Kingdom Institute, United Kingdom 2654 Glotfelty, D. E. 5995 Glover, K. M. 1279 Głowacka, S. K. 2626 Glumac, S. 4257 Gnanapragasam, N. C. 1225, 2192 2192
Gninenko, Yu. I. 3081, 4099
Goater, B. 163
Gobbi, N. 185, 186
Gocan, A. 1719
Gochnauer, T. A. 3683
Godan, D. 4449
Godbee, J. F. 4618
Goderdzishvili, G. Sh. 2453
Godfrey-Sam-Aggrey, W. 1532
Godhania, K. P. 3879
Godse, D. 6679
Godse, D. B. 3893
Godwin, P. A. 518, 1344, 2777 Godyn, D. L. 1954 Goeden, R. D. 4489, 5011, 5502 Goettel, M. S. 36, 6100 Goffau, L. J. W. de 533 Goga, E. 5582 Gohar, K. 4362, 4363, 4376, 4377 Goga, E. 5382
Gohar, K. 4362, 4363, 4376, 4377
Goheen, D. J. 2065
Göhlich, H. 638
Goix, J. 4502
Gokan, N. 715, 1777
Gökmen, N. 6493
Gokulpure, R. S. 2225, 2576
Golani, Y. 4128
Gol'berg, A. M. 1126, 3800
Golden, W. G. 2394
Golden, W. H. 2639
Goldman, R. N. 2805
Goldman, R. N. 2805
Goldman, S. E. 5744
Goldschmidt, R. 4220
Goldschmidt, R. 4220
Goldschmidt, R. 4220
Goldschmidt, R. A. 631
Goldstein, J. 631
Goldstein, J. 631
Goldstein, R. A. 634
Golikowa, E. 3478
Göllner-Scheiding, U. 4864
Gollob, S. K. 517
Goltzene, F. 760, 1810
Golubeva, N. N. 5112
Golubov, Yu. A. 2120
Gomaa, A. A. 468, 1898, 1899, 1900
Gomaa, E. A. 830, 1894
Gomes, J. de C. 5696
Gómez-Bustillo, M. R. 4092
Gómez, F. Manrique 1647
Gómez, L. Alcocer 1660
Gómez Rueda, M. A. 5124
Gómez Sousa, J. 3953, 4445
Goncharova, N. G. 3456
Gonen, M. 3633, 3646
Gong, H. 54
Goni, B. 4424
Gonsalves, D. 4690 Gonsalves, D. 4690

González, A. Garza 1666 González-Buitrago, J. M. 4789 González, D. 1426, 4808 Gonzalez, D. 1420, 4006 Gonzalez Duarte, R. 6047 González, E. Garza 1652 González-Hernández, A. 3356 González Hernández, N. G. 1647 González, L. Iglesias 246 Goo, T. T. S. 1615 Gooding, G. V., Jr. 3560 Goodman, C. S. 4962 Goodman, G. Szatmari- 312, 1923 Goodman, N. 5247 Goodman, R. D. 6556 Goodman, R. M. 6199 Goodner, S. R. 1203 Goodpasture, C. E. 3324 Goodwin, S. 5658 Goodwin, W. 5080 Goodyer, G. J. 1424, 1948 Goos, A. 2462 Gopalan, M. 859, 6525, 6568 Gorbet, D. W. 4039 Gorbunov, N. N. 174 Gordh, G. 3858, 4189, 4808, 5665 5665
Gordon, M. M. 5996
Gordon, R. D. 249, 1445
Gordon, S. C. 940
Górecki, K. 1868
Gorelik, M. M. 5588
Gorgol', V. T. 4231
Gorkavenko, E. B. 5587
Górny, S. 3593, 3602
Gorokhov, A. V. 13, 4735
Gorsuch, C. S. 6262
Goryshin, N. I. 2260, 4844
Gösswald, K. 1588
Gothilf, S. 4061, 4145, 4698, 5724 5665 5724 Gottwald de Alcocer, Q. B. C. 1658 Gotwald, W. H., Jr. 1332, 5463 Götz, K. G. 4759 Götz, K. G. 4759
Gouhar, K. A. 4387
Goujet, R. 1850
Gould, F. 1097, 5102, 6087
Gourdoux, L. 4233
Gourreau, J. M. 3167
Gourvès, J. 1833
Govardhan, T. L. 2211
Govindan, N. 3922
Govindan, R. 1464, 4054, 4056, 5675
Govindraian, R. 5832 Govindrajan, R. 5832 Gowanlock, D. H. 1122 Gowda, G. 886, 1969, 2431, 5549 5549 Gowda, N. G. 2010 Goyer, R. A. 5776 Graca, J. V. da 1469 Gracen, V. E. 6163 Gracia, O. 5709 Gradwell, G. R. 4290 Graham, Ruce, J. L. 33 Gradwell, G. R. 4290
Graham-Bryce, I. J. 3213
Graham, C. L. 310, 2278
Graham, C. W. 5093
Graham, D. P. 5889
Graham, D. P. 5875
Graham, H. M. 1214, 3042
Graham, J. R. 1862
Graham, M. W. R. de V. 3778
Graichen, K. 2939
Grajek, E. 1869
Gralicki, L. 2592
Grande, R. Caballero 4076
Granet, A. M. 3578
Granet, J. 1094 Granet, A. M. 3578 Granett, J. 1094 Granger, N. A. 6084 Granot, N. Haim- 6699 Grantt, G. G. 5279, 6599 Grantham, R. 6048 Grassé, P. P. 6265 Grassely, C. 5076 Gration, K. A. F. 749 Gravena, S. 3976, 4003, 4004, 5623 Graves, J. B. 4586 Graves, R. C. 272, 362 Greany, P. D. 4832, 4833

Greathead, D. J. 1363 Grebenshchikova, V. M. 381 Grebenshchikova, V. P. 3059 Greber, R. S. 867, 1122 Green, L. H. 1791 Green, M. 1106, 2600, 3666 Green, M. B. 5969 Greenbank, D. O. 1597, 5745, 6622 Greenberg, S. 4061, 4698, 5724 Greenberg, S. L. W. 2708 Greenblatt, J. 1573, 4632, Greenblatt, J. A. 5189 Greene, G. L. 919 Greenfield, M. D. 307 Greenhalgh, R. 2570 Greening, H. G. 4670 Greenup, L. R. 4660 Greenup, L. R. 4600 Greenup, L. R. 4608 Greenwood, J. J. D. 2817 Gregoire-Wibo, C. 212, 3823 Gregory, P. 1528, 2704 Gregory, R. A. 4941 Grehan, J. R. 4104 Grenier, S. 1200, 1316, 6315 Gressitt, J. L. 5439 Greve, J. van S. 522 5222 Grewal, J. S. 441 Griego, V. M. 6676 Gries, S. Zimmerman- 467, Ties, S. Ellimer Hall 407, 1020
Griffin, J. G. 496, 2285, 2286, 2287, 2288, 2289, 4316
Griffiths, D. A. 5220
Griffiths, D. C. 5654
Griffiths, E. 3761
Griffiths, G. W. 5435
Griffiths, K. J. 1592
Grigarick, A. A. 5556
Grigoletti, R. 1517
Grigolo, A. 4757, 4777, 5312
Grigorov, S. 1462, 5526, 6266
Grimm, M. 4539, 5943
Grinberg, Sh. M. 2119, 5096
Grissell, E. E. 1349
Grobov, O. F. 602, 3862
Grocholski, J. 3103
Grohe, K. 650
Gromko, M. H. 5320
Grömer, A. 2110 Gromko, M. H. 5320 Gröner, A. 2110 Groot, P. de 6619, 6620 Grossh, D. S. 2227 Gross, H. R., Jr. 4064, 542: Gross, R. S. 6338 Grosscurt, A. C. 639, 2627 Grosser, N. 5480 Grossfield, J. 735 Grove, J. F. 2750 4064, 5428 Grossfield, J. 735 Grove, J. F. 2750 Gruev, B. 4860 Grugel, S. R. 6096 Grula, E. A. 2111 Grula, J. W. 5330 Grüne, S. 5757 Grünwald, J. 1443 Grupo Paulista de Fitopatologia 1753 Grzelskowska, Systekata D. Grzelakowska-Sztabert, B. Grzelakowska-Sztabert, B.
4168
Guan Soon, Lim 322
Gudom, F. K. 2502
Gueguen, A. 1238
Guenther, J. D. 560, 4617
Guerin, P. M. 5927
Guerrero Berríos, M. 1055
Guest, R. T. 2629
Guevara M., A. 1653
Guibord, M. O. 5050
Guichard, K. M. 4737
Guiglia, D. 3788
Guignard, E. 2433
Guilbot, R. 1850
Guillen, E. E. A. 1698
Guillet, C. 4755, 6053
Guillet, C. 4755, 6053
Guillet, F. S. 2976
Guimarñes, J. H. 6313
Guindani, C. M. A. 184
Guindy, M. A. El- 57, 1149, 4156, 4330, 6705
Guinn, F. H. 4628
Guirguis, M. W. 1039, 1040, 1041, 4380, 4387, 4393
Gulidova, L. A. 670 4168

Gulmahamad, H. 1346, 1347 Gulyukina, N. T. 1526 Gunathilaga Raj, K. 5116 Gunn, D. L. 5896, 5897, 5910 Gunn, L. C. 4997 Gunner, H. B. 2108, 4893, 4895 Gunner, H. B. 2108, 4893, 4895
Gunther, F. A. 4160
Gupta, B. K. 2572
Gupta, D. S. 5705
Gupta, H. C. 5833
Gupta, H. C. L. 2003, 2145, 3227, 5663, 5680, 5697, 5817, 5834, 6702
Gupta, I. J. 2756
Gupta, J. N. 1500, 2282
Gupta, J. P. 4202
Gupta, J. P. 4202
Gupta, M. 4281
Gupta, M. L. 3285, 4624
Gupta, P. R. 945
Gupta, R. N. 2464, 4017
Gupta, S. K. 1, 4295, 4634
Gupta, S. L. 1930
Gupta, S. L. 1930
Gupta, S. P. 2181
Gupta, V. 4687
Gupta, Y. N. 4295
Gur, L. 3489
Gur'eva, E. L. 11
Gurney, B. 412
Gurusiddaiah, S. 2586
Gur'yanova, T. M. 2564
Guseva, V. S. 2799, 4821
Guss, P. L. 5539
Gusteleva, L. A. 1315
Gustin, R. D. 778
Guth, J. A. 1713
Guthrie, C. D. 672
Guthrie, W. D. 678, 3716, 6162
Guierrez, A. B. 5715
Gutierrez, A. B. 5715
Gutierrez, A. B. 5715 Gutierrez, A. B. 5715 Gutierrez, A. P. 353, 484, 1550, 2040, 2114 Gutiérrez, B. de 6522 Gutiérrez, F. J. 1653 Gutièrrez, B. de 6522 Gutièrrez, F. J. 1653 Gutierrez, J. 705, 4411 Gutmann, G. 2058 Guy, R. H. 98 Gwiazda, M. 3218 Gwilliam, G. F. 6069 Gwynne, D. T. 2658 Gyldberg, B. 4619 Gwynnantasiri P. 439 Gyldberg, B. 4619 Gympmantasiri, P. 439 Gyrisco, G. 355 Habeck, D. H. 4485, 4532 Habeebullah, B. 2858 Habib, R. M. 976 Hackett, D. S. 799 Hackman, W. 5403, 5647 Haddon, W. F. 5029, 6453 Hadi, S. 5226 Hadley, B. A. 2630 Hadl, S. 5226 Hadley, B. A. 2630 Hady, M. El- 2536 Hadžistević, D. 554 Haese, J. D' 1194 Haese, J. D' 1194 Haeselbarth, E. 509 Hafez, M. 1042, 1247 Hafez, M. A. A. 983 Hafez, O. A. 976, 977 Hafidi, B. 1470 Häfliger, E. 6365 Haga, K. 4729 Hagaman, T. E. 780 Hagen, K. S. 169, 250, 3463, 4064 4064 Häggström, B. 5768, 5955 Hagley, E. A. C. 957, 4553, 5072 Hagstrum, D. W. 3678, 5823
Hagyer, N. G. M. 5752
Hågyar, E. B. 475, 6555
Haim-Granot, N. 6699
Hain, F. P. 535, 5749
Haines, I. A. 825
Haines, I. H. 243
Haines, J. B. 243, 825
Haire, S. 944
Haisch, A. 1253, 6474
Haizlip, B. 2787
Hajjar, N. P. 1164
Hak, R. R. Iss-5581
Hak, T. Abdel-870
Hakkart, F. A. 6669
Hakro, M. R. 3914

uthor Index alappa, G. 1555, 3050 alawany, M. E. S. El- 989 alawany, M. E. S. El-albert, S. 6188 aldane, J. B. S. 4426 ale 2775 ale, P. R. 903 ale, R. L. 810, 811 ales, D. 3067 alfawy, M. A. El- 1108, 2598, 2607, 2608, 2609 aliday, A. H. 713 all, D. G. 10 all, D. R. 688, 2200, 3507, 6056 all, F. R. 1976, 2631, 6238 all, I. M. 2042 all, J. C. 1426 all, M. J. 1970 all, R. A. 1630, 3058, 5859 allberg, E. 4742 allman, G. 6023 all, F. R. 1976, 2631, 6238 allman, G. 6023 alperin, J. 2087 alpern, A. L. 3338 alstead, D. G. H. 2600, 3334 ama, H. 2721 amaguchi, T. 1229 amäläinen, M. 5953 amäle, R. J. 6675 amann, K. 2884 amano, K. 6068 ambleton, E. J. 3057 amburg, H. van 1413 amdy, M. K. 4400 ameed, S. F. 1534, 2436, 2553, 2930, 6403, 6516, 6695 amilton, A. G. 70, 6101 amilton, D. W. 3470 amilton, E. J. 2284 amilton, E. W. 98 amilton, J. T. 1497, 1695, 1700, 5948 amilton, P. L. 303 amilton, J. T. 1497, 1695, 1700, 5948 amilton, R. J. 303 amlen, R. A. 4556 ammad, S. M. 411, 5721 ammann, I. 650, 2640 ammock, B. D. 1152, 1216, 2194, 3228, 5257 ammond, P. S. 6312 ammond, R. 6187 ammond, R. B. 2257, 4036 amnett, A. F. 56, 5343 amon, A. B. 5142 amza, H. A. 61 an, S. S. 4215, 4741 an, Y. F. 315 an, Y. H. 3025 ananía, C. A. 1055 anda, S. K. 1521, 3012, 6512 andler, A. M. 759 andley, J. R. 4097 anel, G. 1336 ani, A. 5687 anif, M. A. 4029 anna, M. A. 971, 983, 2535 anny, B. W. 2514, 2519, 2542 anschke, R. 3165, 4770, 5848 anschke, R. 3165, 4770, 5848 ansell, R. I. C. 5293 ansen, R. 5893 anski, I. 1303 anumanna, M. 1493, 5679 anumantha Rao, K. 2211 anumantha Rao, K. 2211 apai, M. 5264 aque, R. 1137 ara, A. H. 4610 aragsim, O. 2140 arahap, A. 2391 arakly, F. A. 4357, 4358 aramoto, K. A. 2044 arbhajan Singh 5511 archaran Singh 5719 arcourt, D. G. 6348 arding, J. A. 288, 1549, 3 arcourt, D. G. 6348 arding, J. A. 288, 1549, 3358 ardman, J. A. 2006 ardy, R. J. 1091, 5416, 5947 ardy, Y. J. 6609 are, J. D. 4898, 5742 arein, P. K. 6170, 6175, 6179 argreaves, A. J. 940 argreaves, B. 163, 3789

Hargreaves, J. R. 2005 Hargreaves, P. A. 1121 Harkness, R. D. 2806, 4976 Harlan, D. 980 Harley, K. L. S. 4482, 5936 Harman, D. M. 502 Harman, G. E. 4047 Harman, G. E. 4047 Harman, G. E. 4047 Harmon, A. B. 506 Harmon, S. A. 3026 Haron, A. R. B. 431 Harper, A. M. 357, 874 Harper, D. 2070, 6154 Harrap, K. A. 3693, 4692 Harrell, E. A. 1291, 5428 Harrington, E. A. 4632 Harris, A. C. 4302 Harris, A. H. 4665 Harris, C. R. 4019 Harris, E. J. 1615, 3142, 3700, 3747 Harris, E. J. 1615, 3142, 3700, 3747
Harris, J. R. W. 3422, 4593
Harris, J. W. E. 6636, 6637
Harris, K. M. 6483
Harris, M. K. 1447, 3462
Harris, R. V. 5508
Harris, V. E. 5373, 6109
Harrison, B. D. 3023
Harrison, F. P. 4899, 4900
Harrison, R. A. 1444, 1963
Hart, L. R. 954, 3554
Hart, J. T. 200
Hart, J. 3663
Hart, W. 980, 2976
Hart, W. G. 1987, 1988, 5631
Harten, A. van 2854
Hartley, G. G. 293
Hartley, G. S. 3213
Hartley, M. J. 5864
Hartsteck A. W. 2531, 2541 3747 6641 Hartstack, A. W. 2531, 2541, 3323

Hartstack, A. W., Jr. 65, 1048, 2534

Hartwig, E. E. 2486

Harvey, A. W. 4426

Harvey, T. L. 5529

Harvey, W. R. 1785, 3250

Harwalkar, M. R. 5354

Harwood, R. F. 5356

Hasanuddin, A. 6413, 6416

Haseler, W. H. 5498, 5933

Hashem, S. M. 4364

Hashimoto, A. 4753, 6090

Hashimoto, H. 3965

Hashimoto, Y. 6726

Ha Hartstack, A. W. 2531, 2541, 6114
Hawaiian Sugar Planters'
Association Experiment
Station 2355
Hawlitzky, N. 2837, 2838,
3849, 3850, 5474, 6091
Hawthorn, W. R. 6338
Hayashiya, K. 49
Hayat, M. 4191, 4196
Hayden, T. J. 3258, 3259
Hayek, C. M. F. von 699
Hayek, C. M. F. von 699
Hayes, W. A. 634
Hayman, D. L. 4285
Haynes, D. L. 2115, 6136,
6139
Haynes, J. W. 1049, 1242 6114 Haynes, J. W. 1049, 1242 Hays, S. B. 242 Hayward, L. D. 1723

Hazan, A. 4204
Heald, C. M. 5090
Hearn, A. B. 4599
Heath, J. 163
Heath, J. E. 6046
Heath, R. R. 4763, 5421, 6058
Hebert, P. D. N. 4822
Hebling Beraldo, M. J. A. 188, 5460
Hedin, P. A. 947, 2203
Hedlund, R. C. 2569
Hedqvist, K. J. 2660, 3845
Hedrick, T. W. 6255
Heels, P. R. 5501
Heemert, C. van 4217
Hegazi, E. M. 5426
Hegazyi, E. M. 4477
Hegde, B. A. 2852
Hegdekar, B. M. 4576
Heidt, H. 168 Heidt, H. 168 Heilman, M. D. 2515, 2525, 5727
Heimpel, A. M. 2001
Heine, U. 4685
Heinrich, B. 4831
Heinrich, G. H. 4985
Heinrichs, E. A. 891, 1148, 1514, 1515, 1516, 2388, 2902, 3389, 3395, 3396, 3397, 3398, 3400, 3402, 3410, 3411, 3901, 3903, 3904, 3926, 3927, 3928, 3942, 3960, 3969, 3970, 4509, 6388, 6521
Heinzel, H. G. 821
Heitler, W. J. 4962
Heitmann, S. 1194
Helal, E. 4365, 5717 5727 Heinzel, H. G. 821
Heitler, W. J. 4962
Heitlmann, S. 1194
Helal, E. 4365, 5717
Helal, E. M. 487
Helali, T. 2944
Helgeson, R. G. 4901, 4921
Helle, W. 705, 4411
Hellenthal, R. A. 1586
Helmore, D. W. 4210
Helms, T. J. 1939
Helvey, J. D. 5217
Hemeida, I. A. 468
Hemming, C. F. 5906
Henderson, C. F. 222
Henderson, I. F. 3438
Henderson, L. P. 4120
Hendi, A. 4353, 4354
Hendrichs, J. 2245
Hendricks, D. E. 2531
Hendricks, L. H. 2191
Hendrickson, D. L. 1633
Hendrickson, R. M., Jr. 3858
Hendrickson, R. M., Jr. 2927, 2928, 4902, 5579
Hendriksen, A. 3807
Hendriksen, A. 3807 Hendrikse, A. 3807 Hendriksen, A. J. T. 1134 Hendry, L. B. 2199, 5648, 5775 Heneidy, A. H. El- 834, 835, 836 Hengstenberg, B. 4759 Henneberry, T. J. 1274, 2512, 2522, 2523, 2533, 3044, 3291, 3548, 3549, 3550, 4607, 5646, 6559 Henningsson, B. 3078 Henny, C. J. 3102 Henrick, C. A. 4002, 5277, 6731 Henrick, C. A. 4002, 52/7, 6731

Henriot, C. Athias- 2051

Henry, A. C. 660

Henry, C. S. 4903

Henry, J. E. 237, 4133

Henry, T. J. 27, 1580, 2069, 2268, 2573, 3856

Henson, J. L. 1549

Henzell, R. F. 1430, 5874, 5875, 5876, 5877

Her, J. H. 4993

Herard, F. 514, 3068

Herbert, H. J. 969

Herfs, W. 507

Herfst, M. 4699

Herman, A. I. 5855

Herman, S. G. 3102

Herman, W. S. 1792, 3272

Hermann, H. R. 1165, 5451

Hermoso de Mendoza, A. 3505 Hernández, A. González- 3356 Hernández, N. G. González 1647
Hernandez, N. S., Jr. 3042
Hernandez, S. 3146
Hernandez, S. 3146
Herne, D. C. 2954
Herrawie, M. A. ElHerrera A., Y. 3297
Herrera Mesa, L. 3833
Herrera, R. T. 446, 3902
Herrera, W. T. 438
Herrewege, J. van 6048
Herrick, O. W. 553, 568, 1103
Herring, J. L. 1580
Hertel, G. D. 1590, 5161
Herting, B. 4989
Herzel, F. 3177
Hes, R. van 639, 2627
Hespenheide, H. A. 4311
Hessein, N. A. 2454, 2823
Hetnarski, H. K. 725
Hetru, C. 1810 1647 Hetnarski, H. K. 725 Hetru, C. 1810 Hetz, M. 3873 Heu, M. M. 2393 Hewitt, G. B. 1421 Hewitt, P. H. 6334 Heyer, J. den 5 Heyer, W. 1292, 2883, 6362 Heykal, I. H. 952, 953, 978, 2450 2450
Hibino, H. 1932
Hichins O., N. 4444
Hicks, R. A. 5775
Hicks, R. R. 4631
Hidaka, T. 1270, 1299, 1601, 1827, 2749, 2909, 3909
Hiehata, K. 6485
Higa, H. 3722
Higa, T. 2860, 2861, 2862
Higashiura, Y. 5187
Higgins, R. A. 4035, 6149, 6191
Higgs, M. D. 47 6191 Higgs, M. D. 47 Hikim, I. S. 906, 3910, 6395 Hilal, A. 4787 Hildebrand, M. J. 6632 Hildebrand, M. J. 6632
Hilder, T. B. 6434
Hill, A. G. 2988
Hill, A. S. 2691, 4618, 4904
Hill, R. E. 306
Hill, R. J. 4834
Hill, S. B. 959
Hille, M. 2131
Hille Ris Lambers, D. 4206
Hillis, W. E. 3070, 3613
Hills, J. Loftus- 2798
Hilwig, I. 2617
Himene, M. 3153
Himeno, M. 5851
Hindmarsh, P. S. 5813
Hink, W. F. 610
Hinton, H. E. 1253
Hintz, A. M. 1922
Hintze-Podufal, C. 547 Hintz, A. M. 1922 Hintze-Podufal, C. 547 Hinz, B. 2876, 5531 Hinz, P. N. 1395 Hirai, D. 84 Hirai, K. 2202 Hirano, C. 3237 Hirano, M. 5259 Hirao, J. 893, 895, 2913 Hirashima, Y. 911, 912, 1513, 4188, 5737 Hiripi, L. 2212 Hirn, M. 844, 2221, 2222 Hirobe, H. 5261 Hirose, C. 675, 3321 Hirose, Y. 6485 Hiruma, K. 758 Hirose, Y. 6485 Hiruma, K. 758 Hislop, R. G. 4552, 4905 Hitchcock, B. 863 Hladni, M. Janković-Hlavac, T. F. 4200 Ho, C. C. 3382, 3383 Ho, K. K. 3518 Hobbs, H. A. 2007 Hobbs, J. R. 1415 Hodek, I. 103, 3762 Hodges, J. D. 1098 Hodges, R. J. 1111

Hodges, R. W. 575 Hodgson, E. 6087 Hodgson, F. 2650 Hodgson, F. 2650 Hodkinson, I. D. 513, 6029 Hodosan, F. 1719 Hoebeke, E. R. 5761 Hoecke, A. van 3823 Hoek, J. B. 1795 Hofer, H. 5523, 5959 Hoffman, D. F. 1118 Hoffman, J. A. 760, 1810 Hoffman, J. D. 4871 Hoffmann, C. B. 5672 Hoffmann, D. F. 618, 4876 Hoffmann, J. A. 4243 Hoffmann, K. H. 2727 Hoffmann, M. P. 4070 Hoffmann, M. P. 4070 Hoffmaster, R. N. 4906 Hofsvang, T. 475, 6555 Hogan, J. P. 1611 Hokama, K. 2862, 2863 Hokyo, N. 292 Holan, G. 659 Holbek, O. 1134 Holbert, D. 3882 Holden, J. S. 1691 Hollander, J. Den 5299 Hölldobler, B. 4431, 497 Hölldobler, B. 4431, 4973, 6294 6294
Holliday, N. J. 957, 5467
Holling, C. S. 259
Hollings, N. 642
Hollingsworth, J. P. 65, 1048
Hollingworth, R. M. 3196
Holloway, G. A. 829
Holloway, J. D. 4822
Holloway, R. L. 3485, 3529
Holm, E. 21
Holman, G. M. 4774 Holloway, K. E. 3465, 3329 Holm, E. 21 Holman, G. M. 4774 Holman, J. 2226 Holmes, R. T. 4932, 5753 Holt, J. 2009 Holter, P. 1944 Holtgraewe, D. 2008 Hom, R. 3991 Homeyer, B. 3810 Honda, H. 4877 Honda, K. 1826, 4234 Hone, J. 4670 Honěk, A. 1202, 1295, 1918, 6112 Honek, A. 1202, 1295, 191
6112
Honga, H. 1404
Honiball, F. 1990
Hooper, G. H. S. 3701
Hooper, N. K. 1160
Hooten, R. S. 6253
Hopfinger, A. J. 658
Hopkins, A. R. 776, 2516
Hopkins, D. L. 6452
Hoppe, T. 4671
Horák, A. 143
Hori, K. 737, 1217
Hori, M. 3195
Horie, Y. 2698, 5432
Horikiri, M. 1300
Horn, D. J. 789, 873
Horn, C. A. 660 Horn, D. J. 789, 873
Horn, K. F. 573
Horne, C. A. 660
Horng, D. H. 266
Horowitz, R. 6567
Horsburgh, R. L. 4919, 4925
Horst, D. J. van der 3251
Hoshikawa, T. 4415
Hosking, G. P. 4875
Hosmani, M. M. 271
Hosny, A. A. 3816
Hosny, A. H. 3797, 3817
Hosny, M. M. 363, 4332, 4375, 4388
Hosny, M. N. 4326
Hosobuchi, K. 715, 1777
Hosokawa, C. 1321
Hossain, M. 6033
Hosseinipour, M. 638
Hosny, A. 222
Hostetter, D. L. 352, 459, 2001, 6518
Hothi, K. 5222
Hotta, T. 2628
Hou, R. F. 809
Houk, E. J. 5435
House, V. S. 5725 Houseweart, M. W. 545, 1570, 5162, 6596 Houston, K. J. 768 Houx, N. W. H. 1138 Howard, C. M. 1440 Howard, F. W. 2324, 2975, Howard, C. M. 1440
Howard, C. M. 1440
Howard, F. W. 2324, 2975, 3501, 4565, 5583
Howard, R. W. 765, 766, 1714, 5422, 5488
Howarth, F. G. 164
Howell, H. N., Jr. 3557
Howell, J. F. 607, 5009
Howell, J. F. 607, 5009
Howell, J. G. 2670
Hower, A. A. 356, 4907, 4922
Howick, C. D. 3676, 4469, 5489, 5490
Howitt, A. J. 6145, 6222
Howlader, M. A. 6325
Howse, G. M. 6620
Howse, P. E. 46, 47, 48, 1335, 1734, 1818, 1876, 2329, 2694, 3868, 4761
Hoy, M. A. 570, 1239, 1564, 3994, 4239, 4795, 4806
Hoying, S. A. 2435
Hoyt, S. C. 2434
Hrdý, I. 3235, 5001, 5613
Hsiao, J. H. 809
Hsieh, C. Y. 2384, 6410
Hsieh, F. K. 2086, 3132
Hsin, C. 1394
Hsu, S. J. 4677
Hsu, T. C. 3316
Hsu, T. P. 5835
Hsu, T. S. 2371
Hsue, W. C. 6130
Hu, C. C. 2045
Huang, F. S. 5004
Huang, P. J. 266
Huang, Pa 2581
Huber, H. E. 6685
Huber, J. 2110 Huber, H. E. 6685 Huber, J. 2110 Huber, R. T. 4070 Huddleston, P. M. 2544 Huddleston, P. M. 2544 Hudon, M. 269 Hudson, J. S. 609 Huettel, M. D. 4812 Huffaker, C. B. 112, 406, 5935 Huffman, F. R. 1017, 1914 Huggans, J. L. 352, 1945 Huggert, L. 1890, 2340 Hughes, A. L. 94 Hughes, K. M. 605 Hughes, E. C. 6002 Hughes, R. D. 5932 Hughes, T. D. 4218, 4219, 6041, 6042 Hughes, T. D. 4218, 4219, 6041, 6042 Huignard, J. 2710, 3657, 4214 Huis, A. van 763 Hull, L. A. 2932 Hulmani, N. C. 1492 Hulmani, N. C. 1492 Hulspas-Jordaan, P. M. 199 Humphreys, W. F. 116 Hung, L. M. 3132 Hunt, L. M. 1163, 6256 Hunter, D. 6275 Hunter, P. R. 6671 Hunter, R. W., Jr. 2826 Hunter, R. B. 3888 Huot, L. 2675 Huraux, M. 214 Hurd, P. D., Jr. 3309, 3310, 6123 Hurei, M. 3013, 4040 Hurej, M. 3013, 4040 Hůrková, J. 3357 Hussain, M. H. 761 Hussein, M. 976, 977 Hussein, M. H. 2634, 4361, 4372 Hussein, M. Y. 5671 Hussein, M. Y. B. 2479 Hussein, N. M. 4391, 4393 Hussein, S. M. 4336, 4337, 4402 4402 Hussey, N. W. 5091 Hustert, R. 4216 Hutacharern, C. 5175 Hutchinson, E. M. 6488 Huth, W. 1392 Hüther, G. 1845 Hutson, B. R. 3424

Hutson, D. H. 3200 Hutt, R. B. 967, 2444 Hwang, C. Y. 3970 Hwang, J. S. 2086, 3132 Hwang, S. M. 1821 Hyde, D. 5337 Hyder, D. E. 3993 Hydorn, S. B. 2073, 4245 Hyun, J. S. 910, 1127 Iablokoff-Khnzorian, S. M. 4193 Iaccarino, F. M. 3565
Iachetta, F. A. 3662
Iacob, M. 5615
Iacob, N. 5481, 5522
Iba, M. 3322
Ibaraki, A. 5153, 5212
Ibraheim, S. M. 3215
Ibrahim, A. G. 2502, 4723
Ibrahim, Y. B. 5657
Ichikawa, Y. 747, 2697, 5336
Ichimoto, I. 6090
Ichinosé, T. 2731, 4282
ICRISAT 4722
Idrissi, M. A. Ammari El-Iaccarino, F. M. Idrissi, M. A. Ammari El-3481 Idrissi, M. A. El- 968 Ieniştea, M. A. 1832 Ifju, G. 4091 Iga, M. 6486 Iglesias González, L. 246 Iglisch, I. 3174 Ignatowicz, S. 3652, 3772 Ignoffo, C. M. 459, 1620, 2001, 3514, 3547, 3890, 5235 6518 5235, 6518 Iheagwam, E. U. 416, 6117 Iizuka, N. 2020 Ikan, R. 663 Ikebe, K. 2569 Ikeda, M. 4778 Ikeda, R. 3403 Ikeda, T. 5158 Ikejiri, S. 1229 Ikejiri, S. 1229 Ikemoto, H. 1219 Ikeyama, S. 1385 Ilharco, F. A. 3783 Ilsley, C. 1639 Ilsley, C. J., Jr. 5795 Ilvessalo, I. 3787 Im, D. J. 1127 Imboden, H. 844 Imbuga, M. O. 1795 Imnadze, T. Sh. 2616 Impe, G. van 203 Imura, O. 1220, 3668 Inaizumi, M. 4562 Inaizumi, M. 4562
Inam, A. 1537
Inayatullah 1775, 5302
India, Central Coffee Research
Institute 4081, 4082
India, Central Silk Board 2846
India, Central Tasar Research
Station 2846
India, Jute Agricultural
Research Institute 1051
India, United Planters'
Association of Southern Association of Southern India 4084 India 4084
India, University of
Agricultural Sciences,
Hebbal 4183
Indian Institute of Horticultural
Research 6000, 6001
Indonesia, SEAMEO Regional
Center for Tropical Biology
2155 2155 2155
Ingram, W. R. 5121, 5122
Iñigo Mora, C. Pérez- 714
Injac, M. 4024
Inoue, H. 893, 896, 1530, 2913
Inoue, T. 1411, 4458
INCA 2364
Inscoe, M. N. 1735
Inserra, R. N. 1077
Institut de Recherches
Agronomique Tropicales et
des Cultures Vivieres 1170

Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières, Réunion 694 Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières, France 693, 5496 Institut Technique des Céréales et des Fourrages, France 1609 Institute of Plant Protection, Israel 2164 Instituto Centroamericano de Investigación y Technología Industrial 4948 Instituto de Investigaciones
Agropecuarias 4174, 5998
Instituto Nacional de Investigaciones Agrícolas, Mexico 2294 InterAfrican Phytosanitary Council 3238
International Atomic Energy Agency 63
International Centre of Insect Physiology and Ecology, Kenya 2156
International Crops Research
Institute for the Semi-Arid
Tropics 4722
International Institute of
Tropical Agriculture 696,
4180 International Potato Center, Peru 2027, 2492 International Rice Research Institute 2374, 2380 International Union of Forestry Research Organisations 5163 Applied Chemistry 649, 3192 International Union of Pure and 3192 INVUFLEC, France 5666 Ioannou, Y. M. 1156, 5078 Ionařtis, V. 5387, 5388, 5389, 5390, 5391, 5394 Ionařtis, V. P. 3466 Ionescu, C. 105, 106, 294, 5522 Ionescu, C. 105, 106, 294, 5522.

Ionova, Z. A. 2945
Iordanou, N. C. 5078
Iperti, G. 5475
Ippolito, R. 993
Iqbal, R. 2109
IRAT 694, 5496
Ireson, J. E. 1120, 5416
Irie, K. 2718, 5005
Irimie, M. 105, 106
Irland, L. C. 5784
Ironside, D. A. 1937, 1938
Irshad, M. 882
Irving, S. N. 50, 1211, 1212
Irwin, M. 6188
Irwin, M. E. 1511, 6199
Irwin, M. E. 1511, 6199
Irwin, R. D. 2471, 2472
Isa, A. 4327, 4331
Isa, A. L. 3371
Isart, J. 2463
Isenhour, D. J. 6195 Isart, J. 2463 Isenhour, D. J. 6195 Ishaaya, I. 6727 Ishankulieva, T. 3040 Ishay, J. S. 1340 Ishida, M. 641 Ishiguro, T. 3687 Ishihara, H. 2859 Ishii, K. 1321 Ishii, M. 1299, 4994 Ishii, S. 5325 3040 Ishiwatari, T. 5274, 6105, 6584
Ishizaki, H. 664
Isham, B. N. 2376, 2737
Islam, M. A. 433, 6326
Islam, Z. 2901
Islamov, Sh. D. 3337
Ismail, I. I. 4343, 4346
Ismail, S. 2220, 3831, 4781
Isogai, A. 664
Israel, Institute of Plant
Protection 2164
Israel, P. 4515 6584

Author Index sraelson, G. 1307 ss-Hak, R. R. 5581 ss-Hak, R. R. 5581 ssa, Y. H. 4330 ssi, I. V. 3080 lämies, J. 2178, 3985 lo, H. 462 lo, K. 917, 6108 lo, T. 675, 3321 lo, Y. 633 tyavirah, P. J. 6383
vanov, E. N. 5255
vanovic, J. 4257
vbijaro, M. F. 1616, 3650, 4663, 6664
vens, G. W. 3355
ves, P. M. 417
ves, W. G. H. 1593
wabuchi, K. 1321
waki, M. 442
wanek, B. 6466, 6467
wantsch, G. F. 5442
wao, S. 3589
wasaki, N. 4282
wata, K. 5300
wata, T. 2721, 6378
wata, Y. 4160, 6724
zhar, Y. 3489
zhevskii, S. S. 5112
abbal, A. 5229
abbar, M. A. 4029
ackai, L. E. N. 6201
ackson, D. M. 391, 5356
ackson, I. F. 5889
ackson, I. F. 5889
ackson, J. A. 2557, 2558
ackson, J. A. 2557, 2558
ackson, Y. Y. May- 2394
acob, A. 2908
acob, M. 3719, 4164
acob, T. A. 5309
acob, T. J. 6643
acobs, M. R. 3070
acobson, M. 1169, 1742,
3722, 4145, 6062, 6203
acques, H. E. 6005
adhav, L. D. 2242, 5571,
5674
adhav, R. B. 5571
adot, R. 1524
aenike, J. 6030
affe, K. 1335
affé, K. 2694
afri, R. H. 2109
aganmohan, N. 426, 1494
aggi, P. 5653, 5681
agtap, A. B. 2476
ahn, E. 4089, 4637
ahromi, S. S. 2683
ain, B. K. 862
akaitis, B. 5395, 5397, 5399
akimavičius, A. 3339, 5392,
5394, 5400
alas, I. 4853
allon, J. M. 5324
amal, A. 1537
ambazishvili, Ya. S. 5577
ames, J. 2252, 2623
ames, M. T. 6625
an, G. A. 4872, 4873
ana, A. K. 5810
anaiah, C. 728
anaki, I. P. 335, 890, 5035
anardhan, A. 1709
ander, R. 2327
anes, N. F. 654, 3706
anković-Hladni, M. 4257
ansson, A. 1236 anković-Hladni, M. 4257 ansson, A. 1236 anvry, G. C. de 5713 anzen, D. H. 4274, 5219 aouni, T. 6294 aques, R. P. 3686, 5856 ardak, T. 1657 arolím, V. 3268, 4256 arosz, J. 4134, 5850 arraya, A. 2944 aswant Singh 907, 5553, 6374 avadi, I. 5980 ay, E. G. 5812 ayadevi 1718 ayakumar, R. 3974 [ayaraj, S. 335, 342, 991, 1638, 2615, 3010, 3954, 5118, 5236, 5238, 5574

Jayaramaiah, M. 3033 Jayaswal, A. P. 6564 Jayatilleke, D. G. S. 4611 Jayatileke, D. G. S. 4011
Jean-Bart, A. 2981
Jeanne, R. L. 5441
Jefferies, M. G. 1614
Jen, T. L. 2248
Jennings, D. T. 510, 545, 576, 2073, 6596
Jennings, R. C. 1716, 5343
Jensen, J. O. 6229
Jensen, T. S. 513
Jermy, T. 6535
Jesiotr, L. J. 3566
Jiménez Díaz, H. 1672
Jiménez Díaz, H. 1672
Jiménez G., J. A. 6432
Jing Oh, Rok 3249
Jit, I. 5807
Jit, S. 5827, 6666
Jodal, I. 5965
Jodko, J. Narkiewicz- 1870
Joern, A. 4523
Joginder Singh 2039
Johansen, C. A. 678
Johari, R. K. 5820
Johki, Y. 2749
John, B. 6283
John, B. T. 3937
John, V. T. 1931, 6391
Johns, R. E. 3141
Johnson, A. G. 2006
Johnson, A. W. 3561, 5729
Johnson, B. 930
Johnson, B. A. 3826
Johnson, C. D. 1584, 4405, 5750, 6626
Johnson, E. 6210
Johnson, J. J. 2291
Johnson, J. B. 1838
Johnson, J. J. 2291
Johnson, N. F. 1891
Johnson, N. F. 1891
Johnson, P. C. 783, 3589
Johnson, R. A. 134
Johnson, W. L. 2037, 2203
Johnstone, D. R. 165
Joia, B. S. 1612, 3011
Joint Food and Agriculture
Organization/International Atomic Energy Agency Division of Atomic Energy in Food and Agriculture in Food and Agriculture
63, 4278
Jones, R. 1119
Jonaitis, V. 5387, 5388, 5389, 5390, 5391, 5394
Jonasson, T. 5530
Jonathan, J. K. 6015
Jones, A. T. 367
Jones, B. R. 5321
Jones, D. 463, 3294, 4601, 4602, 4605
Jones, J. E. 2517
Jones, J. P. 473
Jones, M. D. R. 2255
Jones, M. G. 1388, 2887, 2889, 5519
Jones, O. R. 2034, 3543
Jones, O. T. 3015, 4172, 5111
Jones, R. A. 5276 Jones, O. T. 3015, 4172, 5111
Jones, R. A. 5276
Jones, R. E. 417, 1550, 2114
Jones, R. J. 4466
Jones, R. J. 4466
Jones, R. L. 3886
Jones, S. L. 1045
Jones, S. L. 1045
Jones, T. H. 6294
Jones, W. A., Jr. 3526
Jong, B. J. de 2152
Jonge, J. de 200
Jongeleen, F. J. J. 616
Jongen, W. M. F. 1138
Jonkman, J. C. M. 1420, 4527
Joose, J. 944
Joose, J. 944
Joose, E. N. G. 3745
Jordaan, P. M. Hulspas- 199
Jordens-Rottger, D. 1824, 2735 2735 Jorgensen, C. D. 2439 Josefsson, L. 1792

Joseph, K. J. 1776 Joseph, M. Bar- 2103, 4690 Joshi, B. G. 6574 Joshi, N. C. 5676 Kamei, M. 674, 1704 Kamel, A. H. 870, 2422, 2423, 2424, 2425, 4346 Joshi, N. C. 5676 Joshi, R. 6487 Joshi, V. N. 3878 Jossi, W. 2150 Jotwani, M. G. 317, 1936, 2405, 2406, 2916, 5041, 5043, 6429 Journal, D. 1234 Journet, A. R. P. 1179, 1180, Journet, A. R. P. 1179, 1180, 1181

Jovanić, M. 2874

Jovanović, M. 6433

Jowah, P. 6431

Joy, P. J. 284, 1942, 1996

Joyce, R. J. V. 5901

Jubb, G. L., Jr. 3458, 4549, 4908, 5059, 5061

Juchnevič, L. A. 2342

Jucker, W. 1982, 5958

Judson, P. 3234

Jui, P. Y. 5349

Julia, J. F. 1436, 6445

Juliano, B. O. 4516

Juliano, B. O. 4516

Juliany, M. H. 4482

Julsrigival, S. 439

Juneau, A. 5205

Juneja, D. P. 2757

Jung, G. A. 347

Jungreis, A. M. 2190

Jurd, L. 2126

Jurkovíčová, M. 1788, 4683, 5849

Jusoh M. 3407, 6408 1181 5849 Jusoh, M. 3407, 6408 Jussila, R. 3860 Jute Agricultural Research Jute Agricultural Research Institute, India 1051 Jutsum, A. R. 1333, 1334, 1874, 2712 Kabachnik, M. I. 651 Kabbage, K. 1470 Kabonci, E. 485 Kachekhina, E. M. 3224 Kadam, M. V. 2242, 2408, 2476, 5509, 6557 Kader, M. M. Abdel- 4112, 6219 Kadkao, S. 2909, 2911, 6394 Kadoum, A. M. 1113, 6214 Kadous, E. A. 222, 3816 Kady, M. H. El- 952, 953, 978, 2450 Kady, M. H. El978, 2450
Kadyrov, A. Kh. 1249
Kadzhaya, G. Sh. 5803
Kafka, W. A. 1724
Kagan, F. 1869, 3519, 3982,
4014
Kaiser, C. 3167
Kaiser, C. 3167
Kaiser, W. J. 3005
Kaisila, J. 5411
Kaissling, K. E. 1725
Kaïtazov, A. 3183
Kaizuma, H. 4778
Kajaia, G. Sh. 5803
Kajak, A. 2819
Kajfez, F. 3156
Kaji, H. 1348
Kajita, H. 1352, 1536, 3292,
6552
Kakiki, K. 3195 6552
Kakiki, K. 3195
Kakkar, K. L. 2280
Kaldy, M. S. 874
Kalenchuk, V. U. 1314
Kaliannan, K. 991
Kälin, M. 762, 2714
Kalinina, A. A. 2142
Kalmes, R. 6049
Kalmoukos, P. K. 2458
Kalode, M. B. 2390, 5547, 5548
Kaloostian, G. H. 5630 Kaloostian, G. H. Kalcostian, G. H. 5630 Kalra, R. L. 1612, 3011, 6373 Kal'vish, T. K. 1322 Kalyan Singh 646, 647 Kalyanaraman, V. M. 343 Kamada, A. 4756 Kamat, M. N. 1031 Kamau, A. W. 1520

2424, 2425, 4346 Kameswara Rao, P. 4010 Kamijo, K. 427, 5736 Kamiwada, H. 1255, 1300 Kamm, J. A. 348, 2410, 5275 Kammer, A. E. 3750 Kamoshita, K. 1151, 1696 Kanaujia, K. R. 4117, 4240, 5819 Kamoshita, K. 1151, 1696
Kanaujia, K. R. 4117, 4240, 5819
Kanda, E. 78
Kanda, K. 851
Kanda, K. I. 1260
Kandil, M. A. 4395
Kandybin, N. V. 5837
Kaneda, C. 2392, 2910, 3403
Kanehisa, K. 3320, 3384, 4771
Kaneko, J. I. 4877
Kaneko, J. I. 4877
Kane, H. K. 727
Kannaiyan, S. 3898
Kanno, H. 83, 5038, 6111
Kanost, M. R. 3694
Kansouah, A. 4363
Kansouah, A. 4363
Kansouah, A. H. 4390
Kansouah, A. S. 4362, 4377
Kansouah, A. S. H. 6710
Kansouah, A. S. H. 6710
Kanta, U. 5497
Kantack, B. H. 6152
Kantaratanakul, S. 807
Kanta, P. M. 1361
Kao, H. L. 908
Kao, S. S. 3132
Kapetanakis, E. G. 210
Kapil, R. P. 1114
Kapin, M. A. 4909
Kapoor, I. P. 2146, 3225
Kapoor, V. C. 4299
Kapoor, V. C. 4299
Kapoor, I. P. 2146, 3225
Kapoor, V. C. 4299
Kapoor, V. C. 4299
Kapor, R. W. 1620
Kapiler, C. 1810
Karandinos, M. G. 3077, 6262
Karavyanskii, N. S. 351
Karczewski, J. 3304, 3342, 4991
Karduck, D. 6335
Karim, A. N. M. R. 319, Karduck, D. 6335 Karim, A. N. M. R. 319, 6398, 6404 Kariya, A. 739 Kariya, A. 739 Karl, E. 2939 Kariya, A. 739
Karl, E. 2939
Karlson, A. K. BorgKarlson, A. K. BorgKarnavar, G. K. 2743
Karsholt, O. 3306
Kartohardjono, A. 3936
Kartohardjono, A. 4611
Karvonen, E. V. 4853
Karvonen, J. 4853
Karvonen, J. 4853
Kasamatsu, Y. 1151
Kasasian, L. 6002
Kaschef, A. H. 6219
Kashanchi, Y. 4159, 5224
Kashio, T. 1353
Kashkarova, L. F. 5241
Kashyap, N. P. 6403, 6516
Kashyap, R. K. 1393, 2282
Kassulke, R. C. 4482
Kaston, B. J. 6007
Kasuga, S. 2728
Katagiri, K. 5158
Katakura, H. 1767
Katanyukul, W. 3562, 3968, 6394
Kathirithamby, J. 2333, 5546 6394
Kathirithamby, J. 2333, 5546
Katiyar, K. N. 1552, 2543
Katiyar, C. P. 856
Katiyar, R. N. 1350
Katlabi, H. S. 5084
Kato, T. 655
Kato, Y. 4827
Katsoris, P. G. 1816
Katsoyannos, B. I. 5610
Katsoyannos, P. 3804
Katsu, Y. 4827
Katsuda, Y. 5261
Katsuno, S. 4776
Kauffeld, N. M. 1342

Kaufman, B. Z. 3133 Kaul, B. K. 2930 Kaunsale, P. P. 5831 Kaupp, W. J. 6631 Kaur, I. 3680 Kaur, R. 6015 Kaushik, U. K. 3919, 3947, 3955, 3957 Kavadia, V. S. 2145, 3227, 4009, 5663, 5680, 5817, 6702
Kaw'rdzhikov, D. 942
Kawabe, S. 5370
Kawada, K. 4572, 4828
Kawagoe, T. 1502
Kawai, A. 2913, 5375
Kawamitsu, K. 2862
Kawamoto, H. 633
Kawamura, N. 4474
Kawarabata, T. 1644
Kawaradani, M. 1224
Kawasaki, K. 4765
Kawase, S. 6674
Kawatra, A. 6289 6702 Kawase, S. 6674
Kawatra, A. 6289
Kawauchi, S. 1351, 1883, 6121
Kawazu, K. 2646
Kay, D. E. 4030
Kay, I. R. 6725
Kaya, H. K. 1128, 4688
Kayani, S. A. 5000
Kaygisiz, H. 4063, 4153
Kayser, H. 1783
Kazadaev, A. A. 1306
Kazem-Zahedi 228
Kazenas, V. L. 3337
Kazyakina, V. I. 4740
Kearby, W. H. 543, 561, 1967, 2052, 6150, 6224
Kearney, J. F. 2545 2052, 6150, 6224 Kearney, J. F. 2545 Kearney, P. C. 649, 3192 Kearns, A. 5844 Keaster, A. J. 304, 1396 Keating, D. L. 585 Keen, R. A. 5209 Keetch, D. P. 4013 Kehat, M. 4061, 4145, 4698, 5724 Keie, I. A. El- 4065 Keifer, H. H. 1480, 2656, 5141 5141
Kelderman, W. 1001
Kelleher, J. S. 2792
Keller, E. 2117
Keller, S. 2117, 5237
Kelley, R. S. 4105
Kelly, C. L. 1581
Kelly, D. C. 4686
Kelly, J. F. 613
Kelton, L. A. 709, 711, 1067, 3729 3729
Kem, T. R. 3667
Kemp, W. P. 5748
Kempton, A. G. 4655
Kenaga, E. E. 2128
Kendra, K. V. 4508
Kennedy, G. G. 3560, 4046, 4048, 5115
Kennedy, J. M. 1142
Kennedy, W. K. 3241
Kenneth, R. G. 5621
Kennett, C. E. 406
Kent, A. D. 2520
Kenya, East African Kenya, East African Agriculture and Forestry Research Organization 2653 Kenya, International Centre of Insect Physiology and Ecology 2156
Kenya, Ministry of Agriculture 4181 4181 Kerphola, S. 4853 Kershaw, W. J. S. 4018 Kerzhner, I. M. 148, 3308 Ketel, D. H. 4217 Kettela, E. G. 1597 Ketterer, R. 2061 Kevan, D. K. McE. 4425 Keyeserlingh H. vog. 3805 Keyserlingk, H. von 3805 Kezdy, F. J. 3267 Kfir, R. 2833 Khaemba, B. M. Khail, A. F. 4072 1541

Khakhanov, A. I. 5241 Khalequzzaman, M. 3870, 6116 Khalifa, A. 4327, 4331, 5581 Khalil, F. 5718 Khalil, F. M. 516, 3451 Khalsa, M. S. 458 Khan, A. A. 5454 Khan, D. U. 319 Khan, D. U. 319
Khan, K. A. B. S. 1774
Khan, K. M. S. 2109
Khan, M. A. 2688
Khan, M. I. 5677
Khan, M. Y. 1189
Khan, N. A. 4522, 5301
Khan, N. H. 1358
Khan, S. R. 413
Khan, T. R. 1324
Khandge, S. V. 5643
Khanna, S. C. 5809
Khanvilkar, V. G. 5977
Khare, B. P. 589, 3670, 5820, 6098
Kharizanov, A. 369, 2312 Kharizanov, A. 369, 2312
Kharub, W. S. 1481
Khasimuddin, S. 79, 774
Khattak, S. U. K. 5806
Khishin, M. K. El- 4371
Khlistovskiĭ, E. D. 2699, 3746
Khlopunov, E. N. 1185
Khmelevskaya, M. A. 5588
Khnzorian, S. M. Iablokoff-4193 Khodeir, I. A. 3394 Khodir, I. A. 889 Khokhar, S. M. 5294 Khokhryakov, V. S. 6712 Kholchenkov, V. A. 2957 Kholmuminov, A. 2346 Khomentovskii, P. A. 582 Khomyakova, V. O. 3378, 5543 5543 Khoo, B. K. 4897, 4910 Khot, R. S. 3050 Khrishna, T. S. 2390 Khristova, E. 68 Khrolinskii, L. G. 3524 Khromenko, A. S. 2736 Khurana, A. D. 869, 1393, Khurana, A. D. 869, 1393, 6656
Khusakul, V. 6411
Khush, G. S. 2398, 2400
Kibata, G. N. 1503
Kidokoro, T. 331
Kieckhefer, R. W. 2358, 6152
Kierych, E. 3082, 4858
Kifl, A. H. El- 4400
Kifune, T. 4188, 4452
Kiguradze, K. T. 2966
Kikukawa, T. 742, 4758
Kikuzawa, K. 5187
Kile, G. A. 1091
Killibrew, F. 2366
Kikukawa, K. 5187
Kile, G. A. 1091
Killibrew, F. 2366
Kilminster, A. M. 5222
Kim, C. W. 32, 4215, 4741
Kim-Chi, Ch. 420
Kim, H. R. 1213
Kim, K. C. 2624
Kim, S. S. 910
Kim, W. K. 32, 4741
Kim, Y. H. 3390, 3401
Kimball, B. A. 3044
Kimball, B. A. 3044
Kimball, R. A. 5154, 5155
Kimbrough, J. W. 3867
Kimmich, R. H. 558
Kimsey, L. S. 6317
Kind, T. V. 2716, 3773
Kindler, S. D. 6153
King, A. B. S. 4506
King, C. J. 1096
King, E. G. 179, 293, 6316
King, M. 6283
King, R. W. 973
Kingsbury, P. 6617
Kingsolver, J. M. 272, 4208, 4676
Kinn, D. N. 1566 6656 4676 Kinn, D. N. 1566 Kinoshita, G. B. 4019 Kinsinger, R. A. 1632, 4140, Kipyatkov, V. E. 4845 Kirao, J. 2385 Kirby, M. A. 1836

Kirby, R. D. 4051 Kireĭchuk, A. G. 1183 Kirk, V. M. 3892, 6166 Kirkland, R. L. 1917 Kirkpatrick, R. L. 3126 Kirkpatrick, T. W. 4056 Kirov, E. I. 1643 Kirpichnikova, V. A. Kirton Experimental Horticultural Station, Unite Kingdom 1759
Kiser, K. 3319
Kishaba, A. N. 3540, 4027
Kishi, N. 3841
Kishino, K. 3385
Kishino, K. I. 4511
Kishk, F. 4394
Kishore, P. 1936, 2916, 5041
Kishore, R. 290
Kisimoto, R. 2386, 2392
Kismoto, R. 2386, 2392
Kistanah, S. 1717
Kiss, M. 2258
Kister, A. S. 733
Kita, H. 4849
Kitano, H. 3166 Horticultural Station, United Kitano, H. 3166 Kitao, M. 49 Kitaoka, S. 4753, 6090 Kitayama, K. 1012 Kitten, W. F. 2521 Kittock, D. L. 2522, 2533, 3044 Klages, G. 3279 Klai, V. Ya- 2909, 3909 Klashorst, G. van de 2493 Klassen, W. 1271, 1283, 1284, 1285, 1286 1285, 1286
Klausnitzer, B. 4454
Klein, J. A. 178, 6181
Klein, K. Prueffer- 3516
Klein Koch, C. 137
Klein, M. 467
Klein, M. G. 6204
Kleinert, J. 5754
Klemperer, H. G. 80
Kliejunas, J. T. 4643
Klima, J. 3730
Klimaszewski, S. M. 1310 Klimaszewski, S. M. 1310 Klimeš, K. 5016 Klimetzek, D. 4629 Klingauf, F. 211, 3796, 3822 Klisiewicz, J. M. 1540 Kljajić, R. 6713 Kloft, E. S. 824 Kloft, W. J. 824 Klomp, H. 6322 Klostermeyer, L. E. 1951, 6240 6240 Klug, J. 1742 Klun, J. A. 741, 1747, 2898, 5328, 5329 Knauf, W. 2582 Knell, J. D. 613 Knight, D. W. 2224 Knipling, E. F. 309, 1276, 5920 Knorr, L. C. 5551 Knowles, C. O. 4150 Knüsel, F. 3663 Knutson, H. 5980 Kny, U. 5487 Kny, U. 5487 Knyazeva, N. I. 119 Ko, L. T. 2467 Kobayashi, A. 4767 1192 Kobayashi, J. 1400 Kobayashi, K. 3755 Kobayashi, M. 2911 6068, 6382 Kobayashi, T. 462, 4 Kobiela, B. 6464 Koch, C. Klein 137 Koch, F. 1320 2911, 5243, 462, 4287, 4521 Koch, F. 1320 Kochansky, J. P. 3838 Kochev, P. 5846 Kochman, M. 3268 Kock, K. 2745 Kodama, T. 1533 Kodomari, S. 5731 Kodys, F. 5669 Koehler, C. S. 1063 Koehler, P. G. 1423, 2412

Koelman, T. A. C. M. 3745 Koerber, T. W. 6593, 6594 Koga, K. 4261 Kogan, D. D. 3006 Kogan, M. 458, 3006, 4588, 6190, 6193, 6201 6190, 6193, 6201
Kogerman, A. 4166
Koh, A. K. 3407, 3408, 6423
Kohnert, R. 1137
Kohno, M. 2972
Koichev, K. 5846
Kojima, A. 332
Kojima, I. 4878
Kojima, M. 5113
Kok, I. B. 4011
Kok, L. T. 101, 275, 832, 853, 1362, 3353, 4933, 5010
Kokubu, H. 6184
Kolaib, M. O. 4477
Kolev, K. 2960
Koli, S. Z. 5624, 5625
Koller, B. G. 3872 Kollmeyer, W. D. 660 Kolomiets, N. G. 1599 1599 Komai, F. 2947 Komano, T. 315 Komano, T. 3153 Komazaki, S. 508 5082 Komissar, A. D. 6300 Komissarenko, S. V. 4 Komissarenko, S. V. 4679
Komlovszky, I. 3313
Komura, M. 3142
Konar, D. 2637
Konashevich, A. G. 2135
Konca, B. 2592
Kondoh, M. 124
Konečný, V. 640, 1139
Konno, Y. 4877
Kono, Y. 1529, 6075
Konovalov, N. Yu. 6540
Konovalova, Z. A. 147
Konrad, T. G. 1279
Kontey, C. 2872 Konstantineanu, M. 5388 Kontev, C. 2872 Kopelman, A. 4911 Kopelman, A. H. 2811 Koponen, S. 800, 5150 Kopp, D. D. 2, 5825 Koppert, J. P. 193 Korah, S. M. Abo- 2478 Korashy, M. A. 4347, 4348, 4349 4399 4399
Korchagin, A. A. 3375
Korcz, A. 3305
Korc, S. S. 2618
Korenaga, R. 5082
Korkor, A. 4386, 4390
Kornalewicz, W. 3083
Korolevskaya, L. L. 2759
Kort, C. A. D. de 730, 3257, 3743 3743
Koschatzky, K. H. 2582
Koshihara, T. 424, 1293, 3721, 5661, 6107, 6500
Koskela, H. 1303
Koślińska, M. 2775, 3476, 3477, 3478, 3479, 6466
Kostadinov, D. 1706
Kostelc, J. G. 5648
Kosztarab, M. 5086
Kot J. 5477 Kot, J. 5477 Koteja, J. 2271 Kourmadas, A. L. 37 Kováč, Š. 1139 Kovachevich, I. 3183 Kovačičová, J. 640 Kovalenkov, V. G. 5714 Kovitvadhi, K. 325 Kowalik, J. Napiórkowska-2893 2893
Koya, E. M. A. 6446
Koya, K. M. A. 360, 5052
Koyama, J. 1400
Koyama, K. 175, 3270
Koyama, N. 1229
Koyuncu, N. 1389
Kozlov, M. V. 6606
Kozłowska, A. 2438, 3995
Kozłowska, M. 1715
Kraemer, M. 742
Kraft S. K. 4912 Kraemer, M. 742 Kraft, S. K. 4912 Krahmer, E. 1073 Kramer, J. P. 1631, 4192

uthor Index ramer, K. J. 590, 2092, 2191, 4713, 5345 ramer, S. J. 763, 3257 rampi, F. 5613 rampl, F. 572, 3235 rasnogolovko, E. D. 3532 raus, D. W. 3720 rautwurst, K. 4644 řeček, J. 5001 rehbiel, O. 5538 rell, P. J. 1125 retzschmar, K. 125 rexner, R. 1525 rieg, A. 627, 2110, 5248 rishna, S. S. 1823, 2682, rishna, T. A. 3899 rishna, T. S. 5547, 5548 rishnaiah, K. 426, 1494, 6553 rishnamurthy Rao, B. H. rishnananda, N. 1553 rishnaprasad, K. S. 1360 rishnaprasad, N. K. 1371, ritskaya, I. G. 2799
ritskaya, I. G. 2799
ritsolutskaya, G. O. 145, 152
rivosheina, N. P. 580
roczyński, J. 5972
roll, J. C. 2557, 2561
rombein, K. V. 1175, 3309,
3310, 6123
ruizinga, B. 2213
rüll, F. 2727
runić, M. 6115
ruse Pedersen, L. E. 819
rushchev, L. T. 3098
ryachko, Z. F. 2955, 5595
ryavhko, Z. F. 1527
ryysan, J. L. 5539, 6248
u, C. C. 2146
u, T. T. 5740
ubo, I. 662
udagamage, C. 2395
üdela, V. 1498
udon, L. H. 5151
udrin, A. I. 5542
uenen, L. 259
ugler, C. 2809
ugler, J. 2729
uksenkov, V. M. 3098
uldová, J. 5613
ulman, H. M. 1570, 1586,
2568, 5211
ulshreshtha, J. P. 858
ulshreshtha, K. 474
umakura, M. 2692, 6458
umamoto, K. 1411, 1433
umar, A. 1368, 2757, 5042
umar, C. T. A. 4054, 4059
umar, D. 1804
umar, N. G. 1427
umar, P. 4744
umar, R. 2552
umar, S. 2615, 3254, 4472,
4473, 4788
umar, T. P. 3677
umar, Y. 2674
umaran, S. 2116
umaraswami, T. 336, 5116,
5118 umaraswamy, T. 3954 umaraswarmi, T. 3922 umaresan, D. 283 lumaraswarmi, T. 3922 lumaresan, D. 283 lumari, S. S. 6396 lumari, T. N. 2031 lumazawa, M. 49 lundu, G. G. 1936, 2916 lunhikrishnan, K. 4550 lunhikrishnan Nair, C. 6343 luniyuki, H. 1754 lunnalaca, S. 461, 1512 luno, E. 2383 lunstman, J. L. 3884 lupczak, I. 2644 luptz, H. 1710 luprashvili, T. N. 2966 lurata, S. I. 4261 lurbatskaya, Z. A. 1637 lurdyukov, V. V. 1673

Kurian, C. 360, 1960, 5052, 6446
Kurihara, M. 894
Kurilov, V. I. 1526
Kurir, A. 2583
Kurup, A. E. S. 6396
Kuruvilla, S. 2908
Kusakabe, S. I. 1403
Kusch, D. S. 1596
Kushwaha, K. S. 2145, 6702
Kusiak, M. 2644
Kuster, J. E. 1227, 6073, 6598
Kusumi, T. 4849
Kutsch, W. 45
Kutsenogii, K. P. 1643
Kuusela, K. 2178
Kuuzik, A. 4166
Kuwahara, Y. 1168, 2695, 5325 6446 Sazzi Kuznetsov, N. N. 2176, 2269 Kuznetsova, E. I. 6585 Kuznetsova, V. G. 4 Kwolek, W. F. 3716 Kwong Sue 4324 Kwong, Tam Mun 4129 Kyomura, N. 1153 Kyrki, J. 2270, 3985 La Paz, A. Rojo de 4783 La Pré, L. F. 3992 Laasonen, E. M. 4853 Labanowska, B. H. 376, 6448, 6451, 6464 Labanowski, G. S. 3287 LaBerge, W. E. 2657 Lacasa, A. 3388 LaChance, L. E. 75, 3553, 4796 5325 4796
Lackie, A. M. 5231
Ladd, T. L. 5689
Ladd, T. L., Jr. 1425, 6203
Ladel, J. P. 5323
Ladell, W. R. S. 3793
Lafer, G. Sh. 149, 150
Lafon-Cazal, M. 4791
Lafont, R. 1234
Lagowska, A. 2993, 2994, 2995
Lagueux, M. 1810 4796 2993 Lagueux, M. 1810 Lahellec, M. 3167 LaHue, D. 6214 LaHue, D. W. 3679 Laing, J. E. 1979, 5472, 5501, 5856 Laing, J. E. 1979, 5472, 5501, 5856
Lakota, S. 2644
Lakra, R. K. 1481
Lakwah, F. El- 673
Lal, B. S. 4055
Lal, L. 35, 2054, 5014, 5015
Lal, M. N. 898, 3932, 3943, 3945, 6402
Lal, O. P. 358, 3508, 5083, 5660
Lal, R. 1712
Lal, S. S. 6542
Laliberte, G. E. 3127
Lall, B. S. 408
Lam Thi My Yen 1168
Lamaei, A. 3797
Lamb, H. H. 5916
Lamb, R. J. 4535, 4536
Lambert, L. 4504
Lambert, L. 4604
Lambiase, J. T. 3692
Lamie, O. 222, 225, 889, 3394, 3816 3816
Lammerink, J. 6505
Lamothe, P. 604
Lamy, M. 4787, 5315
Landaluze, P. Urquijo 3318
Landim, C. da C. 2808
Lane, A. 4612, 5575, 5670
Lane, B. B. 2065
Lane, M. 163
Lanfranchi, A. 6673
Lang, R. 3219
Lang, S. 2241
Lange, L. de 4568
Langenbruch, G. A. 3887
Langridge, D. F. 6556
Langridge, W. 5233
Långström, B. 1565, 5149 3816

Lanier, G. N. 3087, 4924 Lanir, N. 5996 Lantican, R. M. 450 Lanza, G. 5628 Lanzrein, B. 844 Lapietra, G. 3610 Lappa, N. V. 3514 Lara, F. M. 1397, 1496, 5570, 6426 Lara Londoño, L. 5170 Laraichi, M. 3369, 3370 Larionov, G. V. 1641, 1642, 1643 Larochelle, A. 2827, 2828, 5407, 5408, 6733
Larroque, M. M. 1882 Larroque, M. M. 1882
Larroque, M. M. 1882
Larroque, M. M. 282, 1367
Larsen, T. B. 1287
Larson, A. D. 4037
Larsson, R. 5841
Larsson, S. 5756
Lasebikan, B. A. 1683
Lashomb, J. H. 528
Láska, P. 3346
Lassam, N. J. 723
Lastra, R. J. 2892
Lata, P. 5807
Lateef, F. A. Abdel- 4347
Lateef, M. A. Abdel- 4399
Lateef, M. F. Abdel 4348
Latheef, M. A. 2471, 2472, 4540
Latteur, G. 4136, 6691 4540
Latteir, G. 4136, 6691
Lattif, M. A. Abdel- 3815
Latyshev, N. K. 2888
Laudého, Y. 1992, 1993, 1994, 5639, 6490, 6492
Lauenstein, G. 6319
Lauffer, M. A. 3148, 3159, 3160, 4689, 5244
Lauga, J. 4963
Laugé, G. 2838
Launois-Luong, M. H. 170, 3331, 5455
Launois-Luong, M. H. 170, 3331, 5455
Launois-Luong, M. H. 170, 3331, 5455
Lautenen, D. R. 1430, 3723, 5874, 5875, 5876, 5877
Lautenschlager, R. A. 1568, 2571, 4913
Lauterer, P. 4649, 5200
Lautié, N. 1256
Laux, W. 691, 6734, 6735
Lavenscau, L. 5315
Lavigne, R. J. 3855
LaVine, P. 944
Laviolette, P. 1316
Law, J. H. 3267, 3282
Law Wei Min 322
Law Wei Min 322
Lawrence, F. J. 6356
Lawrence, P. J. 6356
Lawrence, P. J. 6356
Lawrence, R. K. 254
Lawson, D. L. 3793
Lawson, F. R. 1668
Lawson, H. M. 940
Lawton, J. H. 270
Laxminarayana, K. 2428
Lazar, K. V. 3271
Lazarovici, P. 757, 1268
Lazurkina, N. V. 3173
Le Baron, H. M. 6370
Le Fichoux, Y. 6642
Le Mesne, G. 1337
Le Moli, F. 2325, 2326
Le Pelley, R. H. 3055
Le Roux, A. M. 4436
Lea, R. G. 3138
Leahey, J. P. 5260
Leake, L. D. 3274
Leal, M. P. 3548
Learnonth, S. E. 6421
Leather, S. R. 5384
LeBlanc, J. P. R. 959
Lebrun, D. 213, 6057
Lebrun, P. 213, 6057
Lebrun, P. 668, 4318
LeCato, G. L. 5821
Lechapt, G. 6355
Lecheva, I. 1452, 1454
Leclercq, M. 817
Lecoq, M. 5455, 6284

Lecoustre, R. 4544 Ledieu, M. 2621 Ledieu, M. S. 676, 2622 Lee, B. 2344 Lee, C. Y. L. 1615, 3142 Lee, F. L. 98 Lee, G. H. 1747, 5328, 5329 Lee, H. H. 4681 Lee, G. H. 4681
Lee, J. K. 32
Lee, J. G. 2393, 3390, 3401
Lee, K. H. 1213
Lee, P. P. 3316
Lee, R. E., Jr. 4752
Lee, S. M. 4301
Lee, S. S. 39
Lee, T. M. 2141
Lee, W. Y. 934
Leege, T. A. 4090
Leeper, J. R. 377
Lees, A. D. 4715
Lees, A. D. 4715
Lees, A. D. 4715
Lees, A. D. 468
Legaspi, B. M. 449
Legay, J. M. 2222, 5494
Leggett, J. E. 481, 482
Legner, E. F. 2549, 2668, 3556
Legoupil, J. C. 2489
Lebarg, S. S. 1516 T3556
Legoupil, J. C. 2489
Lehman, P. S. 1516
Lehmkuhl, D. M. 937
Lehnert, T. 1629
Lehrer, A. Z. 10
Lehtinen, P. T. 800
Lei, C. H. 5007
Leibee, G. L. 873, 6242
Leighton, D. 3837
Leite Filho, A. S. 5664
Lelie, L. A. Sevenster-van der 6320
Lema, K. M. 4032 6320
Lema, K. M. 4032
Lema, K. M. 4032
Lemaitre, C. 6053
Lemon, R. W. 218
Lenoir, A. 1338, 6293
Lenteren, J. C. van 195, 196, 197, 199, 200, 201, 259, 3808, 6320
Lenteren, J. V. van 198
Lentz, G. L. 4604
Lenz, M. 5490
León López, R. L. 2310
León M., J. R. de 2300, 2301
Leonard, D. E. 1069, 1093
Leonard, M. E. 6309
Leonard, A. M. C. 2808
Leonhardt, B. A. Bierl- 1589, 1676, 4312, 5328, 5329, 6461 6461
Lepone, G. 1747, 5328, 5329
Leppla, N. C. 77, 98, 2631
Ler, P. A. 153
Leroi, B. 1243
Leroy, G. 6708
Lesbats, M. 5315
Lesemann, D. 1392
Leskova, A. Ya. 5837
Leslie, G. W. 1376, 1378
Lessard, F. F. 5315
Lester, R. 2200, 6056
Leston, D. 4558, 4559, 5358, 5359, 5360, 5361, 5362, 5363 6461 5359, 5360, 5361, 5362, 5363
Letendre, M. 3978
Letowski, J. 3776
Lettere, M. 3509
Leuamsang, P. 325
Leuschner, W. A. 579, 4631
Leuthold, R. H. 4468
Levchenko, E. A. 587
Levesque, C. 4836
Levesque, G. Y. 4836
Levin, D. B. 5856
Levin, D. B. 5856
Levins, R. 5438
Levinson, A. R. 1741, 2248, 3630, 4118
Levinson, G. A. 4588
Levinson, H. Z. 1741, 2248, 3630, 4118, 4659, 4671, 6061, 6474
Levitan, L. C. 540
Levy, R. 2323 5363

Lew, A. C. 93, 6246 Lewartowski, R. 1869, 3702, Lewis, A. C. 4057
Lewis, A. E. 4294
Lewis, D. C. 3095
Lewis, L. C. 614
Lewis, T. 634, 1458, 6736
Lewis, W. J. 1748, 4064
Leyenaar, P. 3888
Lezhenko, S. S. 265
Li, C. C. 1780
Liang, T. T. 3884
Liang, Y. T. 2191
Liao, C. H. 3025
Liao, K. C. 4677
Liao, T. S. 4993
Liard, F. 5409
Liaropoulos, C. 1992, 1993, 1994, 5639, 6492
Libbey, L. M. 3606
Libby, J. L. 6227, 6230
Liboon, S. P. 438
Lichtenstein, E. P. 3884, 6215
Liebherr, J. 5198
Liebig, G. 3295
Liechty, L. 1231
Lienk, S. E. 376, 4914
Lieutier, F. 5186
Liew, T. L. 2045
Light, D. M. 555
Light, W. I. St. G. 5670
Likhovidov, V. E. 3098
Lilly, C. E. 686
Lim, B. H. 2992
Lim, G. S. 3399, 3407, 3408, 3916, 6408, 6423
Lim, G. T. 1379
Lim Guan Soon 322
Lim, J. S. 1127
Lim, K. P. 4147, 6303
Lima, C. P. F. de 3627, 3644, 4656, 5415
Lima Filho, M. 1375
Lima Reto, V. da Costa 1014
Lin, K. S. 2991
Lin, N. 1889
Lin, T. S. 1935
Lin, Y. H. 3906, 5568
Lindahl, K. Q. 2580
Lindegren, J. E. 618, 4876
Lindhoud, W. M. 220
Lindig, O. H. 1847, 2287, 2280 Linding, O. H. 1847, 2287, 2289
Lindquist, R. K. 229
Lindsten, K. 3881
Ling, K. C. 883, 884, 885, 3900, 3956, 6384, 6390, 6405, 6413, 6416
Ling, L. C. 2649, 6453
Lingaraju, S. 1360
Lingren, P. D. 64, 92, 6559
Linit, M. 2786
Link, D. 1908, 2015, 2016, 2066, 2421
Linnane, J. L. 5207
Linsley, E. G. 6126
Liotta, G. 204
Lipa, J. J. 1861, 1864, 4616
Lippold, P. C. 3401
Lister, C. K. 5207
Liston, A. D. 3162
Listov, M. V. 1618
Litsinger, J. A. 446, 892, 900, 904, 905, 2372, 3895, 3902, 3938, 3952
Little, C. H. A. 5777
Little, D. de 2591
Little, H. F. 6036
Littlewood, S. C. 2740
Litvina, L. A. 1643
Litvinova, H. F. 2799
Liu, H. J. 926
Liu, Y. C. 1901
Livingston, R. L. 1571
Lizarbe, M. A. 6051
Lizárraga Figueroa, W. 1648, 1662
Llanes, J. R. 3042
Llewellyn, G. C. 6678 2289 Llanes, J. R. 3042 Llewellyn, G. C. 6678 Llewellyn, M. 4031, 4581 Lloyd, D. L. 6434

Lloyd, H. A. 4236 Lloyd, J. E. 6102 Lloyd, M. 4635 Lo, K. C. 949, 3382, 3383 Loan, C. C. 5467, 5578 Lo, K. C. 949, 3383, 3383
Loan, C. C. 5467, 5578
Loban', N. A. 3361
Locke, M. 6079
Lockey, K. H. 4790, 6064
Lockley, T. C. 1046
Lockshin, R. A. 6052
Lockwood, D. F. 2481
Lockwood, M. J. 6247
Lodos, N. 1310, 3877, 4095
Loera, J. 5535, 6161
Lofgren, C. S. 3838
Löfqvist, J. 1236
Loftus-Hills, J. 2798
Logan, D. M. 2434
Logan, J. A. 167
Loginova, E. 68
Loher, W. 2247, 5369
Lombard, P. B. 5609
Londofio, L. Lara 5170
Lonergan, G. 6601
Long Ashton Research Station,
United Kingdom 5069 Lonergan, C. 6001

Long Ashton Research Station
United Kingdom 5069

Long, G. E. 2567

Long, S. H. 352, 5665

Longhurst, C. 1818, 1876,
2329, 3868, 4761, 6060

Longworth, J. F. 3160, 4137

Loon, J. van 3277

Loon, J. van 3277

Lopatin, I. K. 3782

Lopes, H. de S. 4726

Lopes, L. de O. 407

Lopez, D. J., Jr. 65

López-Fanjul, C. 2604, 4817

López, J. D., Jr. 1048

López, R. L. León 2310

Lord, W. D. 4915

Lorimer, N. 66, 4270, 4800

Lorimer, R. I. 163

Loschiavo, S. R. 4657

Lott, D. A. 3224

Lotto, G. de 28, 4205

Loughton, B. G. 1793, 4221, 6071 Loughton, B. G. 1793, 4221, 6071 Louskas, C. 1994, 6492 Loutfy, M. S. 1043, 2536 Louw, M. 6541 Love, J. L. 585, 2273 Loves, H. J. B. 6359 Lowe, H. J. B. 6359 Lowe, J. A. 5037 Loya Ramírez, J. 2303 Loya Ramírez, J. G. 2295 Löyttyniemi, K. 4101, 4102 Löyttyniemi, K. T. 5165 Lozano, J. C. 1023 Lu, W. Q. 2241 Lubega, M. 4847 Lubega, M. C. 79 Luca, N. 105, 106 Luca, Y. de 2602 Lucena, A. I. T. de 5569 Luchko, V. P. 6299 Luchnikova, E. M. 5342 Luck, R. F. 259, 538, 1550, 2833 2833 Lücke, W. 5531 Luckmann, W. H. 307, 458, 3889, 5540, 6250 Luczak, J. 5476 Ludemann, L. R. 3324 Luetkemeier, N. 2137 Luetkemeier, N. 2137 Luévano Oropeza, H. 1655 Luff, M. 176 Luff, M. L. 3424, 5054 Lugo, C. Castaños 1671 Luisi, N. 1077 Luke, A. J. 6164 Luke, J. 356 Lukefahr, M. J. 2513, 2525, 5727 5727 Luk'yanchikov, V. P. 5545 Lum, P. T. M. 1230, 2197, 3647, 6037 Lumaban, M. D. 446, 892, 904, 3895

Lumaret, J. P. 3794 Lumley, A. 5902 Lund, A. E. 3196 Lund, C. T. 2954 Lund, R. 1244 Lundgren, L. 4144 Lundin, R. E. 5029 Lundin, R. E. 5029 Lung, G. 4714 Luntz, A. J. 89 Luong, M. H. Launois- 170, 3331, 5455 Luppino, P. 5636 Luria, M. 4710 Lüscher, M. 844 Lüthy, P. 6685 Lutze, G. 2879 Lyachenko, P. L. 1560 Lutze, G. 2879
Lyachenko, P. I. 1560
Lyle, W. M. 308
Lyon, J. P. 2032, 5138
Lyon, W. F. 818
Ma, E. P. 860, 4866, 6442
Ma, S. C. 2233
Ma, W. C. 6322
Maas, W. 3214, 3216
Mabbett, T. H. 2539
Mabelis, A. A. 4433, 6296
Mabuchi, M. 3299
McAvoy, T. J. 6517
McCaffery, A. R. 788
McCaffrey, J. P. 4919
McCaleb, D. C. 6080
McCalley, N. F. 1487
McCallum-Deighton, J. 363 McCalley, N. F. 1487
McCallum-Deighton, J. 3659
McCann, F. V. 4748
McCarthy, W. J. 3692, 5233
McChesney, J. D. 5330
McClanahan, R. J. 5265
McClany, A. S. 1664
McClellan, W. T. 2205
McClelland, W. T. 535, 5749
McClure, M. S. 3608, 4920
McComb, C. W. 1589
McComb, D. 5215
MacConnell, J. G. 4097
McCoy, E. D. 2311
McCoy, J. R. 1049, 2726, 4814
McCoy, R. E. 1961 McCoy, R. E. 1961 McCreight, J. D. 3540 MacCuaig, R. D. 5911 McCulloch, L. 6273, 6274, 6282, 6286 McCully, J. E. 4894 McDaniel, B. 6006 McDaniel, C. A. 765, 766, 5422 McDaniel, S. G. 4603 McDonald, F. J. D. 1518, 4725 McDonald, H. 5638 MacDonald, I. A. 5813 McDonough, L. M. 354, 392, 1136, 2410, 4073, 4171, 5275 5275
McDougall, G. A. 541
Macedo, J. H. Pedrosa-2053
Macedo, M. C. M. 5696
Maceljski, M. 2078
McEwen, F. L. 926, 1027,
4019, 5264
McEwen, S. E. 3260
McFadden, K. A. 725
McFadden, T. L. 2984
Macfaddyen, A. 3427
McFadyen, P. J. 5935
McFadyen, R. E. 2857, 5935,
6337
McFarlane, J. E. 1781, 6065 McFarlane, J. E. 1781, 6095 MacFarlane, J. H. 2466 Macfarlane, R. P. 4857 McGaughey, W. H. 1632, 4140, 6183 4140, 6183 McGovern, T. P. 2154, 3230 McGovern, W. L. 2544, 2545 MacGown, M. W. 1099 McGrath, H. J. W. 2273 McGregor, H. E. 590, 2092, 4713 McGrew, J. R. 943 McGuire, J. U. 309 Machado Diniz, J. L. 190 Machaín L., M. 2296, 2297 Machin, J. 1786, 2190

Machowicz-Stefaniak, Z. 3158 Maciesiak, A. 6465 McIntosh, A. H. 1639, 3168, 5795 Mack, T. P. 3537, 4916 Mackauer, M. 29, 551, 1879, 4995
MacKay, P. A. 4535, 4536
McKechnie, S. W. 4674
McKelvey, J. J., Jr. 4795
McKenzie, J. A. 4674
McKenzie, R. I. H. 3135
McKibben, G. H. 2203
McKnight, M. E. 3085
McLain, D. K. 1288
McLain, T. E. 4091
McLaren, I. W. 5939
McLaughlin, J. R. 1029, 4763
MacLean, D. A. 6623 4995 MacLean, D. A. 6623 MacLean, D. B. 3302, 6238 McLean, D. L. 5370 McLean, J. A. 2226 McLean, J. A. 2226 MacLean, S. F., Jr. 513 McLellan, A. R. 1859 MacLellan, C. R. 1977 McLeod, B. 6617 McLeod, D. G. R. 311 MacLeod, D. M. 2070, 5218 McLeod, J. M. 2570 McManus, M. L. 577, 1275, 3576 3576 McMillian, W. W. 304, 2407, 3885 3885 McMullen, L. H. 5202 McMurtry, J. A. 402, 831 MacNaeidhe, F. 5928 McNaeidhe, F. 6506 McNeil, J. N. 604, 2570, 2675 3978 3978
McNutt, D. N. 499
MacPhee, A. W. 384
McPhee, J. R. 6619, 6620
McPherson, R. M. 456, 4586
McQuillan, P. B. 5416
McVay, J. R. 2932
McVeigh, L. J. 3507
McWilliams, J. M. 4587
Maddison, P. 4592
Maddox, D. M. 855
Maddrell, S. H. P. 5333
Madenjian, J. J. 571
Madi. S. A. 6710 Maddrell, S. H. P. 5333 Madenjian, J. J. 571 Madi, S. A. 6710 Madi, S. M. 4156 Madjar, V. Melamed- 3150 Madrigal C., J. A. 6131 Madsen, H. F. 390 Maeda, M. 3153 Maeda, S. 3688 Maelzer, D. A. 5934, 5949 Maesen, L. J. G. van der 5678 Maeta, Y. 4438 Magayarosy, A. C. 4319 Maeta, Y. 4438
Magayarosy, A. C. 4319
Magnien, C. 3530
Mague, D. L. 4917
Magyarosy, A. C. 5109
Mahadevan, N. R. 6525
Mahal, G. S. 5024
Mahar, J. 5198
Mahar, M. M. 3914
Mahdihassan, S. 1359
Maher Ali, A. 224 6525 Mahdihassan, S. 133-Maher Ali, A. 224 Maheswari, A. C. 2003 Mahieu, N. 6610 Mahmoud, T. T. 3451 Mahoney, R. L. 6635 Mahmoud, T. T. 3451
Mahmoud, T. T. 3451
Mahnoney, R. L. 6635
Mahr, D. L. 831, 1893
Mahrotra, N. K. 2447
Mahrt, G. G. 2491
Mahto, D. N. 2497
Mahunka, S. 3244
Maier, C. T. 4918, 5453
Mailloux, G. 960, 5047
Mailloux, M. 359
Mainguet, A. M. 6091
Maini, S. 741, 1747
Maison, P. 5076, 6473
Maity, C. R. 1794
Maity, S. P. 410, 1941, 4861
Majeed, Q. 2317, 2796
Majer, J. D. 2043
Majerus, M. E. N. 1817, 2060
Majid, A. 902, 3931
Majumder, N. 1407 1817, 2060

Iajzlan, O. 5201 Iakar, P. V. 5624, 5625 Iakdoomi, M. A. 3931 lakdoomi, M. A. 3931
lakino, S. 99
laksimović, M. 3568
laksymiuk, B. 5215
laksymov, J. K. 6629
lałachowska, D. 1869, 4041
lalakhanov, Yu. A. 3524
lalcolm, J. P. 3452
lalhotra, C. P. 1350
lalhotra, R. K. 2236, 5469
lalik, K. F. 1950
lalik, M. M. 5806
lalinina, V. G. 6540
lalinowska, D. 1892
lalinowski, H. 5972
lalio, E. 5644 falinina, V. G. 6540 falinowska, D. 1892 falinowska, H. 5972 falio, E. 5644 falipatil, M. B. 1245, 5352 falki, K. G. El- 1043 fall, S. B. 2181, 4746 falla, Y. K. 4299 fallik, S. N. 6497 fallipudi, N. M. 2139 falokvasova, T. S. 5765 falone, O. L. 1847 faltais, P. 5214 falyi, L. P. 3098 famaev, B. M. 580, 3097 fammen, K. V. 3939 fanchanda, S. K. 3832 fancharan, N. 342 fanchev, M. 5246 fandal, P. K. 1089 fandal, S. C. 2337, 2506 fangiarotti, A. M. 5012 fanglitz, G. R. 1951, 6240 fanh Huynh Vu 3721 fani, G. S. 6119 fanh Huynh Vu 3721
fani, A. 5552
fani, G. S. 6119
fani, M. 5573, 5574
fanicom, B. Q. 718
faniglia, G. 205
faninder 2830
faninder 2830
fanindar, T. M. 886, 887, 1057, 1371, 3971, 4023, 4510 Mankins, J. V. 6126 Manly, B. F. J. 109, 2817, 4290 Aanny, B. F. J. 109, 2617, 4290

4ann, G. S. 1933

fann, J. S. 717

4anninger, G. A. 2868

fanoharan, V. 274

fanoukas, A. G. 5310

fanrique Gómez, F. 1647

fansager, E. R. 3545

fanson, D. C. M. 6638

fansour, M. H. 4367, 4368

fansour, M. A. 4398, 5824

fanu, E. Owusu- 3053, 4079

fanuszak, J. L. 3380

fanzelli, M. A. 3664

fano, G. Y. 2645

faragal, S. M. 3975

faramorosch, K. 3148, 3159, 3160, 3168, 4689, 5244

farciano, A. P. 897, 3387, 4517 Marciano, A. P. 897, 3387, 4517

Marcinkowski, Z. 1868

Marconato, A. R. 3976

Marei, A. M. 6717

Marei, A. S. M. 490, 5723, 5983, 6721

Marek, J. 3235, 5613

Marek, M. 1803, 3266, 6065

Margetts, V. J. 3683

Margham, J. P. 5822

Mariau, D. 1436, 1438, 4544

Mariconi, F. A. M. 1544, 1545, 1546, 2029, 3016

Marin, M. 253

Marina, T. A. 3325

Marini, M. 6125

Mariouw Smith, F. 220

Markhula, M. 1903, 4476, 5953 5953 Markowski, K. 3477 Marks, E. P. 5433 Marks, J. R. 2817 Marks, R. J. 1749 Marmaras, V. J. 1816

Marques, E. J. 1370 Marrone, P. G. 5135 Marsh, N. 726 Martone, P. G. 5135

Marsh, N. 726

Marsh, P. M. 570, 4107

Marshall, G. 5080

Marshall, J. E. 708

Marshall, W. D. 3204

Marston, N. L. 459, 1511

Martel, P. 269

Martelli, M. 5614

Martiel, J. L. 6292

Martin, A. P. 244

Martin, D. Dubois- 6348

Martin, D. F. 92, 293

Martin, J. S. 1354

Martin, J. S. 1354

Martin, J. S. 1354

Martin, M. M. 1354

Martin, P. B. 515

Martin, R. 6360

Martin, T. J. 5529

Martínez, C., J. L. 2297, 2298

Martínez Cordón, F. 6532

Martínez, D. G. 2413

Martinez, D. G. 2418

Martinez, D. G. 2967

Martinez, D. G. 2967

Martinez, D. G. 2966

Martin, J. F. da S. 3966, 4519, 5037, 5566

Martin, J. F. da S. 3966, 4519, 5037, 5566

Marty, P. 6642

Marumo, S. 2628

Marwaha, K. K. 2895, 2896

Marx, J. 5080

Marzo, L. de 985

Masaki, S. 72, 349, 4947, 5366, 5430

Maschwitz, U. 2058

Masih, A. M. E. Abdul- 477

Maslan, M. S. 3933, 6422

Maslennikova, V. A. 5342, 6074

Maslov, A. D. 5196 6074
Maslov, A. D. 5196
Masne, G. le 1337
Masner, L. 1771, 1855, 1890, 1891, 6032
Masner, P. 762, 2714
Mason, C. J. 3576
Mason, J. B. 234
Mason, W. R. M. 1092, 3245
Massariol, A. A. 6519
Massonie, G. 5076, 6473
Massot, N. 6305
Masteller, E. C. 5059 6074 Massonie, G. 5076, 6473
Massot, N. 6305
Masteller, E. C. 5059
Mastryukova, T. A. 651
Masuda, T. 2912, 6719
Masutti, L. 2080, 6592
Matamala V., J. 932
Matamala V., J. 932
Matanmi, B. A. 422
Matecki, W. 2277
Matei, I. 5615
Mateias, M. C. 2414
Matejko, I. 5478
Matev, T. 5845
Mathad, S. B. 683, 2219, 5006
Mathai, P. J. 471
Mathai, S. 2908
Mathelin, J. 4783
Mathew, K. 1750, 1751
Mathioudis, M. 6496
Mathis, K. C. 5510
Mathlein, R. 2600
Mathur, A. C. 504
Mathur, B. P. 4067
Mathur, B. P. 4067
Mathur, B. P. 4067
Mathur, S. 2377, 3392, 5034, 5036
Mathur, S. 4116 5036
Mathur, S. 4116
Mathys, G. 3109
Matile, L. 5449
Matioli, J. C. 4122, 4123, 41
Matis, G. 6454
Matolín, S. 2140
Matsuda, K. 4767
Matsuka, M. 1294
Matsumoto, A. 729
Matsumoto, K. 1209, 3755, 5325 4122, 4123, 4124 5325 Matsumoto, S. 1219 Matsumoto, Y. 4877 Matsumura, F. 742, 4758 Matta V., A. 4444, 4570

Matteson, P. 3991 Matthee, J. J. 6652 Matthes, P. 2885 Matthews, G. A. 3791 Matthews, J. R. 1085 Matthews, R. W. 1085 Matthysse, J. G. 6269 Mattix, E. 1242 Matvievskii A. S. 2053 Matthysse, J. G. 6269
Mattix, E. 1242
Mattivskiĭ, A. S. 2953
Mauchamp, B. 1234
Mauney, J. R. 2512, 3549
Mauritius, Ministry of
Agriculture and Natural
Resources and the
Environment 1171
Mauritius Sugar Industry
Research Institute 5513
Maw, M. G. 6339
Mawby, W. D. 5749
May, B. M. 4313
May-Jackson, Y. Y. 2394
May, B. M. 4313
May-Jackson, Y. Y. 2394
May, R. M. 110
May, Y. W. 422
Mayer, M. S. 6732
Maynard, M. 1142
Mayo, Z. B. 877, 1923, 1939, 5540, 6252
Mayor, J., Jr. 1496
Mayr, G. 4186
Mazokhin-Porshnyakov, G. A. 2251, 4740
Mayur, O. P. 351 Mazokhin-Forshnyakov, G. A. 2251, 4740
Mazur, O. P. 351
Mazur, S. 132, 2074
Mazzone, P. 3490, 3491, 5585, 6024 Mead, A. R. 4983 Mead, F. W. 20, 515, 5583 Medda, A. K. 263 Medina, E. Alonso de 1843, 5412 5412 Medina Piles, V. 5134 Medina, V. 3505 Medvede, R. A. 3556 Medvedev, L. N. 151, 1199 Megalla, A. H. 1898, 1899, 1900 1900 Megias, A. 4789, 5346, 6051 Mehl, R. 4110, 4111, 4407 Mehrotra, K. N. 2319 Mehta, S. K. 5106 Meier, H. 2876 Meier, W. 5957 Meijden, E. van der 5500, 6323
Meillon, B. de 4557
Meinander, M. 3784
Meinert, G. 2891
Meinsma, E. 966
Meisner, J. 485
Meixner, A. J. 2795
Mejule, F. O. 6646
Melamed-Madjar, V. 315
Melshechenko, T. V. 587
Melber, A. 1825
Meliker, M. A. 4984
Mellors, W. K. 4921
Mel'nik, V. N. 6301
Memmi, M. 5606
Menassieu, P. 3075
Mendes, C. 472
Mendoza, A. Hermoso de 3505
Meneses Carbonell, R. 35 6323 587 Meneses Carbonell, R. 3953, 4445 Meneses Carbonell, R. 3953, 4445
Menke, A. S. 3, 3781
Menn, J. J. 3226
Menon, M. V. 3558, 6565
Mensah, G. W. K. 2093, 2094, 4119, 5223
Mensah, I. Addae- 1815
Menzies, D. R. 3998
Meotto, F. 2081, 6457, 6588
Merdan, A. I. 603
Meredith, W. R., Jr. 2514, 2519, 2542
Merendonk, S. van de 198
Merrit, R. W. 162, 3793
Mertens, P. 3824
Mertins, J. W. 6257
Mesa, L. Herrera 3833
Meshal, M. 4128
Mesquita, A. L. M. 407

Messenger, P. S. 3991 Messina, F. J. 2855 Metcalf, R. L. 3225, 4158, 5436
Methi Ekasing 439
Metspalu, L. 5862
Metterhouse, W. 3100
Metwally, A. G. 1044
Metwally, E. S. M. 4376
Metz, J. F., Jr. 3241
Meulemans, M. 3824
Mey, W. de 219
Meyer, L. M. C. 6520
Meyer, R. H. 2950, 6468
Meyer, R. W. 2850
Meyerdirk, D. E. 1298, 1987, 1988, 5619, 5631
Meynadier, G. 2938, 5138
Miah, M. A. H. 2376
Miah, S. A. 3900
Michael, P. J. 5943
Michelaskis, S. 3507
Michelakis, S. 3507
Michelaski, J. 3103
Michelaski, J. 3103
Michelaski, J. 3103
Michelaski, M. 1985
Michelsen, V. 6014
Micieli de Biase, L. 1972, 3492, 5592, 5794
Micinski, S. 2432
Michel, M. H. 6134
Mielke, O. H. H. 4855, 4856
Mier Durante, M. P. 3780
Migushova, E. F. 5022
Mihajlova, B. 4863
Mihajlović, Lj. 5793
Mikhailova, N. A. 2361, 3374
Mikhailova, N. A. 2361, 3374
Mikhailova, N. A. 2361, 3374
Mikhailova, K. 3756, 5411
Mikros, L. 6496
Milatovic, L. 3111
Miles, P. W. 5934 5436 Methi Ekasing 439 Metspalu, L. 5862 Mikkola, K. 3756, 5411
Mikros, L. 6496
Milatovic, L. 3111
Miles, P. W. 5934
Milián, H. Ochoa 5730
Miller, C. A. 1572, 1597, 6622
Miller, C. E. 4600
Miller, D. E. 5892
Miller, L. A. 1441, 1518, 5416
Miller, L. K. 1124, 4681
Miller, L. K. 1124, 4681
Miller, M. R. 2047
Miller, M. R. 2047
Miller, M. R. 2047
Miller, M. R. 2047
Miller, P. L. 2732, 3752
Miller, T. A. 1142, 2212, 4870
Miller, T. A. 1142, 2212, 4870
Miller, W. E. 625, 1176, 1187
Miller, W. O. 4600
Milligan, S. E. 2611
Mills, R. B. 771, 3645
Mills, R. B. 771, 3645
Mills, R. B. 771, 3645
Miller, R. 5877
Millovanović, A. 6115
Milstead, J. E. 1623
Milstead, J. W. 3152
Min, Law Wei 322
Minamite, Y. 5261
Minananda, N. 325
Minasyan, M. E. Ter- 152
Mineo, G. 2430, 3368, 5288, 5637
Minett, W. 3655
Ming-Chun-Kao 2045
Ming, W. J. 567
Ming, W. J. 567
Ming, W. J. 567
Ming, T. M. 3315
Miniawi, S. F. El- 4350, 4351
Miniá, D. 5792
Minion, F. C. 5852
Ministerio de Agricultura, Chile 4174, 5998 Ministerio de Agricultura, Chile 4174, 5998
Ministry of Agriculture and
Lands, Solomon Islands 4179 Ministry of Agriculture and Natural Resources and the Environment, Mauritius 1171 Ministry of Agriculture and Natural Resources, Gambia 4182 Ministry of Agriculture,
Fisheries and Food, United
Kingdom 268, 302, 425

Ministry of Agriculture, Kenya 4181 Minks, A. K. 1738 Minnick, D. R. 1029 Minns, J. 376 Minshawy, A. El- 3815, 4338 Minshawy, A. M. El- 30, 4334, 5426 Minshawy, A. M. El- 30, 4334, 5426
Mintzer, A. 5459
Mirchink, T. G. 1357
Mirenda, J. T. 2276
Miricà, A. 5603
Miricà, I. 5603
Mirkes, K. A. 3372
Misato, T. 3195
Mishaeva, N. P. 1314
Mishchenko, L. L. 4957
Mishra, G. M. 4595
Mishra, R. C. 945
Mishra, R. K. 5263
Mishra, S. C. 6329, 6330
Mishra, S. N. 2682
Misnik, N. F. 3022
Misra, B. C. 327, 2384
Misra, D. S. 2636
Misra, P. N. 990, 2636
Misra, S. D. 1929
Misra, S. S. 5137
Missonnier, J. 214, 217, 3 Missonnier, J. 214, 217, 38: Mital, V. P. 5834 Mitchell, B. K. 2704 Mitchell, D. J. 6706 Mitchell, E. B. 2203, 2530, 214, 217, 3811 2544 Mitchell, E. R. 4505 Mitchell, K. G. 4131 Mitchell, R. G. 519, 2057 Mitchell, R. H. 3205 Mitchell, R. H. 3205
Mitev, S. 314
Mitlin, N. 740
Mitra, S. C. 795, 796, 1839, 1840, 2265
Mitri, S. H. 4065
Mitsuhashi, J. 738, 3270
Mitsui, T. 3252
Mitter, C. 5197, 5742
Mittler, T. E. 1294, 4319, 5429
Mitture, J. D. 3604 Mityaev, I. D. 3604 Miura, T. 911, 912 Miya, K. 2718 Miyahara, M. 1446 Miyahara, M. 1446 Miyahara, Y. 1208, 5375 Miyamoto, J. 3197 Miyamoto, K. 3096 Miyashita, K. 4765 Miyasono, M. 3687 Miyata, T. 102 Miyazaki, A. 2628 Miyazaki, M. 849, 850, 851, Miyazaki, M. 849, 850, 851, 1426

1426

Miyazaki, M. 849, 850, 851, 1426

Mizuguchi, Y. 1215, 3288

Mkrtchyan, L. P. 2848

Mobiglia, J. L. 1397

Mochida, O. 330, 2382, 3934

Modder, W. W. D. 4961

Modugno, G. 2362

Moeck, H. A. 6590

Mockidjo, A. 616

Moenen, R. M. Bink-3829

Moffett, J. O. 1877

Moffett, M. W. 5499

Moffitt, H. R. 392

Mohamad, R. B. 5657

Mohamed, I. I. 1039, 1040, 1041 Mohamed, M. A. 486
Mohamed, U. V. K. 1881, 3271, 4772, 5318
Mohammad, M. K. 4453
Mohan, N. J. 6553
Mohana Rao, G. 1406
Mohanasundaram, M. 890, 5035 5035 Mohrig, W. 3165, 5848 Mohyuddin, A. I. 1363 Moiseeva, T. S. 2335 Moisescu, D. Enicä- 872 Moli, F. le 2325, 2326 Möller, C. 3078 Molyneux, L. 176 Monaco, R. 2446, 3492

Mondal, K. A. M. S. H. 3870 Mondal, S. 3726, 4727 Monem, A. H. Abdel- 4882 Monet, R. 5076 Mongkolprasith, V. 2439 Mońko, A. Draber- 3342 Monsarrat, P. 3167 Monsef, S. A. El- 2536 Monsef, S. A. El- 2536
Montanelli, E. 6673
Monte, G. dal 3115
Monteiro, A. R. 2029
Montes de Oca, G. 6658
Montgomery, M. E. 1201
Montoya Burgos, J. A. 1654
Mony, K. S. R. 1366
Mookherjee, P. B. 5809
Moore, A. 5139
Moore, G. 6182
Moore, I. 2668
Moore, J. A. 6635
Moore, N. F. 5844
Moore, R. F. 1847
Moore, T. E. 4250 Moore, T. E. 4250 Moore, W. S. 1063 Mora, C. Pérez-Íñigo 714 Morad, C. Pérez-Inigo 714
Moradi, B. 1380
Moraes, G. J. de 1656
Moraes, G. W. G. de 183
Morah, S. C. 6647
Morales, J. 4922
Morales Suárez, S. F. 1670
Moran, V. C. 3352, 4480, 6341 Mörchen, A. 1329 Mordue, A. J. 89 Mordue, W. 5314 More, T. A. 2554 Moreau, B. 5667 Moreau, R. 4787, 5315, 5323 Morel, J. L. 214 Moreno, D. S. 6731 Moreno, M. A. Salazar 1672 Moreno, R. 1011 Moreteau, B. 4262 Moretti, L. A. 1544 Morgan, E. D. 245, 1809, 4235 Morgan, J. 6169 Mörchen, A. 1329 4235 Morgan, J. 6169 Morgan, J., Jr. 2126 Morgan, M. J. 4307 Morgan, R. W. 2128 Morgan, W. M. 2622 Morgante, J. S. 5353 Mori, H. 3841, 3842, 5921 Mori, K. 742, 4629, 4713, 6061 Mori, L. 5353 Morimoto, K. 4187 Morin, J. P. 1438 Moriya, S. 916, 2912, 4825, 6380 6380 Mörner, J. 5733 Moromizato, Y. 2859 Morosini, S. 3007 Morrill, W. L. 2184 Morris, D. S. 6460 Morris, G. K. 2658 Morris, M. G. 3431, 3434, 3443 Morris, O. N. 6632 Morris, R. C. 563 Morris, R. F. 928, 4865 Morris, R. C. 563
Morris, R. F. 928, 4865
Morrison, R. D. 1047, 3528
Morrison, R. K. 1045, 5725
Morrow, P. A. 6634
Morse, J. G. 537
Morse, P. M. 1312
Morse, R. A. 4441
Mortensen, K. 6617
Morton, N. 1036
Morvan, A. BockeleeMoschetto, Y. 6708
Mosquera Paris, F. 6549
Mossadegh, M. S. 6055
Mostafa, T. M. 5641
Mostefa, A. BenkaraMote, U. N. 5649
Motoi, R. 105, 106
Motro, U. 6567
Motta Macedo, M. C. 5696
Motte, P. 6642
Mouches, C. 1470
Moulden, J. 4666

Moulding, J. D. 571 Mourad, S. 4327, 4328, 4329, 4331 Mourikis, P. A. 1966, 3803, 4163 Moussion, G. 2965 Moustafa, F. I. 486, 490, 595, 4398, 5723, 5824 Moustafa, F. I. 486, 490, 595, 4398, 5723, 5824
Moustafa, O. K. 4704
Moustafa, T. S. 4346
Moutous, G. 368, 1470
Mouzin, T. E. 3484
Movsesyan, L. I. 6607
Mowat, D. J. 3441, 3442
Mráček, Z. 5853
Mu, L. Y. 2645
Muckerjee, A. L. 624
Mueller, A. J. 461, 1484, 1512
Muggleton, J. 2733
Mühle, T. 2714
Muhopadhyay, S. 3925
Muir, W. E. 3127
Mujušković, M. 1463
Mukarjama, F. 6068
Mukarjee, S. K. 4151
Mukerji, M. K. 929
Mukesh, D. 4266
Mukhamediev, A. A. 2663
Mukharji, S. P. 856, 2054, 2636, 5014, 5015
Mukherjee, A. B. 6399
Mukhopadhyay, S. 3405, 3915, 3929, 5031
Mulders, J. J. F. 4217
Muldrew, J. A. 1593 3929, 5031
Mulders, J. J. F. 4217
Muldrew, J. A. 1593
Mullen, M. A. 3669
Müller, P. J. 762
Müller, W. A. 5904
Mulligan, G. A. 3354
Mullinix, B. G. 1291, 2898
Mumby, S. M. 3228, 3741
Mumma, R. O. 4882
Mun Kwong, Tam 4129
Mundaca B., N. 932
Mundall, E. C. 3267, 3282
Municio, A. M. 4789, 5346, 6051 6051 Muñiz Daza, M. 5424 Muñiz Daza, M. 5424 Muñiz V., R. 3297 Munro, J. 303 Munroe, E. 1975, 3090 Munson, R. E. 352 Münster-Swendsen, M. 3597, 5148 Murad, H. 4772 Murai, M. 292, 4500 Murai, T. 4572, 4828 Murakami, Y. 3572 Murakami, Y. 3572
Muraleedharan, N. 5468
Muramatsu, S. 1145
Murant, A. F. 600, 601, 2105
Murdoch, G. 1508
Murdoch, W. W. 2817
Murdock, L. L. 3196
Murillo Cruz, J. I. 1651
Murphy, T. F. 5233
Murray, A. T. 5090
Murray, D. A. H. 3510, 3511
Murthy, P. S. N. 6412
Murugesan, S. 2537, 5126, 6562
Musgrave, C. A. 473, 1962 6562 Musgrave, C. A. 473, Musick, G. J. 5540 Mussett, K. S. 1047 Mussgnug, G. L. 237 Mustanarta, H. 1728 473, 1962 Mussett, K. 5. 1607
Mussgnug, G. L. 237
Mustaparta, H. 1728
Mustaparta, H. 1728
Mustinga, M. J. 6545
Muttuura, A. 3090
Myartseva, S. N. 280, 4981, 5598, 6019
Myers, H. S. 6235
Myers, J. H. 1262, 1506
Mynhardt, M. J. 26, 4450
Nabawi, A. El- 2271
Naby, A. A. Abdel- 761
Nachev, P. 388, 6440
Nadarajan, L. 3125
Nädejde, M. 6349, 6700
Nafria, J. M. Nieto 3780
Naga, A. M. Aboul- 5722
Naga, A. M. Abul- 5721

Nagai, K. 1410 Nagai, S. 5376 Nagai, T. 311 3874, 5659 Nagalingam, B. Nagaingain, B. 3674, 3639
Nagano, M. 1705
Nagaraja, H. 2169, 2829, 418:
Nagarkatti, S. 1057, 4185
Nagarawa, H. 664
Nagashimada, Y. 1501
Nagata, T. 2912, 6719
Nagata, Y. 1705
Nagata, T. 2912, 6719
Nagata, Y. 1705
Nagatomi, A. 5300
Naglingam, B. 2369
Naguib, M. A. 933
Naguib, S. M. 1044
Nagy, B. A. L. 4869
Nahal, A. K. El- 4346
Nahum-Zvi, S. 6699
Naidu, B. S. 3974
Naidu, M. B. 2404
Naidu, N. V. 1709
Naik, G. 2614
Naidu, N. V. 1709
Naik, G. 2614
Naik, L. K. 5675
Naik, L. M. 2494, 5643
Naik, R. 899
Nair, C. R. 6343
Nair, C. P. R. 281
Nair, C. P. R. 281
Nair, C. P. R. 281
Nair, C. R. M. 3273
Nair, K. K. 4960
Nair, M. R. G. K. 914, 1902, 2031, 3032, 6343
Nair, N. R. 3923, 3939
Nair, S. S. 3897, 3923
Naito, A. 333, 849, 851, 1260
Naji, A. H. 358, 3508, 5083
Nakada, Y. 1145, 1146
Nakagawa, M. 6674
Nakagawa, M. 6674
Nakagawa, M. 1151, 1696
Nakajima, S. 2646
Nakamura, T. 641
Nakagama, T. 641 641 1827, 5372 Nakanishi, A. 1827, 53 Nakanishi, K. 662 Nakano, O. 2044, 5811 Nakano, S. 1767 Nakano, S. 1767 Nakao, H. K. 4695 Nakasone, S. 107 Nakasuga, T. 3018 Nakasuji, F. 1404, 6120 Nakayama, I. 655, 4878 Nakday, A. M. N. El-437 Nakhla, J. M. 1108, 2598 Nalampang, A. 430 Nalina Kumari, T. 2031 Nalina Kumari, T. 3032 Nalinakumari, T. 3032 Nam, S. H. 4215, 4741 Nambiar, K. K. N. 4550 Nambiar, M. C. 4550 Namken, L. N. 2515, 2525, 5727 57/27 Namkoong, G. 5191 Nanda, G. S. 5024 Nandi, B. C. 4292 Nangiu, D. 4585 Nantes, J. F. D. 1517 Napiórkowska-Kowalik, J. 2893

Nangju, D. 4585 Nangju, D. 4585 Nantes, J. F. D. 1517 Napiórkowska-Kowalik, J. 2893 Nara, J. M. 6174 Narahashi, T. 1235 Narain, A. S. 2254 Narang, R. C. 3285, 4624 Narasimha Rao, B. 3874 Narayanan, C. R. 3834 Narayanan, K. 1638, 3010, 5238 Narayanasmy, P. 3941, 39

Narayanasamy, P. 3941, 3948, 4508, 6393
Narayanaswamy, P. 341
Narendran, T. C. 1776, 1881
Narkiewicz-Jodko, J. 1870
Narzikulov, M. N. 2663
Nash, D. R. 3091, 3092
Nasiruddin, M. 6326
Naskali, R. J. 4090
Nasr, E. A. 224
Nasr, E. S. A. 4326, 4332
Nasr, S. E. Abul- 603, 3149, 5129

Author Index Nasreddinov, Kh. A. 2173 Nassar, M. E. S. 952, 953, 978, 989, 2450 Nast, J. 5401 Nasu, S. 4849 Natarajam, K. 3392 Natarajan, K. 1408, 3393, Natarajan, K. 1408, 3393, 3404, 3912, 5034
Natarova, R. V. 1674
Natawiria, D. 5226
Nath, D. K. 906, 3391, 3910, 4052, 4507
Nath, V. 2281 National Research Council of Canada 4162 National Vegetable Research Station, United Kingdom 6501 Natskova, V. 5267 Nauer, E. M. 5629 Nault, L. R. 2892 Naumann-Etienne, K. Navarajan Paul, A. V. 2343 Navarrete, F. Sánchez 1672 Navarro Alzate, R. 6450 Navarro, S. 787, 2605, 3646, 4159, 5224 4159, 5224
Navrajan Paul, A. V. 2182
Nawale, R. N. 5674
Nawar, M. M. 61
Nawawy, A. S. El- 222, 3816
Nayak, B. 4277
Nayak, P. 2614, 2903, 2904, 2905, 2907
Nazmi, N. H. 4475
Ndiaye, A. 5899
Ndoye, M. 316
Neamy, I. K. Al- 477
Nebeker, T. E. 528, 1098, 1210, 2577, 6595 Neamy, I. K. Al- 477
Nebeker, T. E. 528, 1098,
1210, 2577, 6595
Nedkova, L. 5846
Need, J. T. 309
Neel, W. 947
Neel, W. W. 2943
Nef, L. 668
Negishi, H. 2731
Negishi, T. 5274, 6105, 6584
Negm, A. A. 2354, 2634,
4340, 4349, 4356
Negrobov, O. P. 3325, 3594
Negrobov, O. P. 3323
Neill, G. B. 3035
Neilsess, J. 2057
Neisess, J. 2057
Neisess, J. 2057
Neisess, J. A. 5215
Neitzel, K. 5688
Nekawa, M. 2862
Nel, J. J. C. 4568
Nell, H. W. 6320
Nelson, D. R. 40, 5331, 5422
Nelson, D. R. 40, 5331, 5422
Nemoto, H. 1583, 4306
Nemchik, V. Fudalevich1192
Nemec, P. 5234
Nemadović, V. 4257
Nentwig, W. 6324
Nesbitt, B. F. 2200, 3507, 6056
Neser, S. 4481
Nešković, N. 6723 6056
Neser, S. 4481
Nešković, N. 6723
Nesmith, W. C. 2630
Nettar, G. 3963
Nettles, W. C., Jr. 2540, 2690
Netto, J. Chaud- 4457
Neubauer, S. 5016
Neuenschwander, P. 1991, 4008, 6495, 6496
Neumann, F. G. 5763, 5797
Neumann Visscher, S. 4959
Neumann, F. G. 5763, 5797
Neumann Visscher, S. 4959
Neumann, S. 1742
Neupokoeva, N. K. 6585
Neury, G. 2433
New South Wales, Biological and Chemical Research
Institute 2161
New, T. R. 4086
New York State Agricultural
Experiment Station 2163
New York State College of
Agriculture and Life
Sciences 3241 Veser, S. 4481

New Zealand, Department of Scientific and Industrial Research 1760, 4143 New Zealand, Forest Research Institute 5778 Institute 5/78
Newburgh, R. W. 751
Newby, R. 2579
Newell, I. M. 1298
Newman, D. J. S. 53
Newman, G. G. 5672
Newsholme, E. A. 1805
Newsom, L. D. 456, 4037
Newton, C. M. 3088, 5787
Newton, J. 6252
Ng Thai Tsiung 436
Ng, Y. S. 4157
Ngatia, C. M. 5805
Nguyen, N. T. 4529, 6277, 6278, 6279, 6280
Nhami, A. 1470
Niccoli, A. 743, 1474
Nickerson, J. C. 85
Nickle, D. A. 6665
Nicolas, G. 1325, 1326, 1328, 3831
Nieder, G. 1710 Newburgh, R. W. 751 Nieder, G. 1710 Nielsen, B. O. Nielsen, D. G. 6211, 6212 Nielsen, J. K. 782, 1852 505, 565, 1191, Nielsen, R. A. 3830 Nielsen, S. A. 782, 1852 4594 Nielsen, T. R. Ntelsen, T. R. 4594 Nielson, D. G. 1201 Nielson, J. K. 1367 Nielson, M. W. 6025 Niemczyk, E. 2445, 2959, 3473, 3474, 3475 Niemczyk, H. 5046 Niemczyk, H. D. 4530, 6208 Nieto Nafría, J. M. 3780 Niezborała, E. 6462, 6463 Nigam, H. 2352 Nigeria, International Institute Nigeria, International Institute of Tropical Agriculture 696, 4180 Nigerian Stored Products Research Institute 6644 Nigg, H. N. 973, 974, 5269 Nijholt, W. W. 1595, 5202, 6597 Nijhout, M. M. 2717 Nijveldt, W. 3599 Nikam, P. K. 837, 1828 Nikishina, E. S. 3378 Nikitin, M. I. 1606 Nilakhe, S. S. 1246, 2723, 3757 3757
Niles, G. A. 3554
Nilssen, A. C. 2175
Nimbalkar, S. A. 4025
Nirmal Singh 5137
Nishida, J. 49
Nishida, T. 4323
Nishiguchi, C. 6586
Nishiitsutsuji-Uwo, J. 3689, 5851 Nshinstituli-Cwo, 3. 3003, 5851
Nishimura, M. 1232, 5303
Nishioka, T. 1696
Nitsiporovich, A. A. 3170
Nizam-ud-Din, M. 2038
Njio, K. D. 2190, 4766
Noblet, R. 59, 3720
Nobuchi, A. 5184
Noda, H. 732, 790, 4848
Nöel, J. Roy- 130
Noguchi, T. 1411
Noirot, C. 844
Nöjd, N. O. 5206
Nolan, E. S. 4936
Nolan, R. A. 612
Nonaka, K. 1410
Noor, A. 1924, 3019, 4009, 5697
Nopp, H. 5340, 5365 5851 Nopp, H. 5340, 5365 Nordin, G. L. 4141, 6210, 6728 Nordlander, G. 5808 Nordlund, D. A. 1748, 4064 Nordquist, P. G. 6153 Norelius, G. 4144 Norick, N. X. 3588

Noriko Shima, S. 186 Norin, T. 1236 Norman, J. W. 5727 Norin, T. 1236
Norman, J. W. 5727
Norman, J. W., Jr. 1549
Norman, N. A. 5733
Norris, R. C. 1961
North, D. T. 4276, 6220
Norton, G. A. 5931
Notario, A. 246
Nothnagle, P. 5753
Nothnagle, P. J. 4932
Nouri, J. 4335
Novák, I. 572, 4880
Novak, J. A. 6340
Novak, J. A. 6340
Novak, J. A. 6340
Novak, V. 4088
Nowack, V. 4088
Nowack, V. 3036
Nowak, V. 3103
Nowakowski, Z. 3716
Nowakowski, Z. 6465, 6467
Nowinszky, L. 2258
NRC Associate Committee on
Scientific Criteria for
Environmental Quality
4162
Nub. T. P. 1331 4162 Nun, T. P. 1331
Nunes Farias, A. R. 5696
Núñez, F. J. 1665
Nunnally, L. B. 5191
Nurberdyev, K. 2790
Nutsugah, D. 2552
Nuzzaci, G. 985, 4413
Nwana, I. E. 6575
Nwankwo, F. I. 6645, 6649
Nwogu, E. O. 6645, 6649
Nyawin, A. S. 5968
Nye, I. W. B. 1188, 5295
Nyffeler, M. 255
Nyffeler, M. 255
Nyffeler, M. 255
Oakeshott, J. G. 4285
Oatman, E. R. 2501, 3987
Obara, Y. 96
Oberlander, H. 4762 Nuhn, T. P. 1331 Oberlander, H. 4762
Obourn, T. H. 4908
O'Brien, D. S. 6624
O'Brien, G. W. 3260
O'Brien, R. E. 2546
O'Brien, R. W. 3260, 4754
Obrycki, J. J. 3290
Obuchowicz, L. 2686
Oca, G. Montes de 6658
O'Callaghan, D. P. 4924
Ochando, D. 5385
Ochoa Milián, H. 5730
Ocloo, J. K. 845
O'Connor, J. D. 844
O'Connor, J. P. 3779
Odak, S. C. 453, 2484, 5228
Odell, T. M. 518, 1344, 2777
Odindo, M. O. 1132
Odiyo, P. O. 5909, 5918
O'Dowd, D. J. 4972
Oehlschlager, A. C. 2198, 4096, 5213
Oester, P. T. 548
Ogane, Z. 333
Oganesyan, S. B. 2948, 2949
Ogarkova, G. R. 1123
Ogaza, B. Žak- 2271
Ogden, D. B. 6400
Ogunwolu, E. O. 4532
Ogura, N. 738, 1219
Ogwaro, K. 1414
Oh, Rok Jing 3249
Ohabuike, J. E. 2321
Ohba, M. 3151, 3155, 3163, 3169
Oheimb, R. V. 638
Oheimb, R. V. 638
Oheimb, R. V. 638 Oberlander, H. 4762 Obourn, T. H. 4908 Oheimb, R. V. 638 Ohgami, H. 5261 Ohgushi, T. 276 Ohiagu, C. E. 4524, 4525, 4526 4526 Ohinata, K. 3722, 6062 Ohira, Y. 1250 Ohkawa, H. 3197 Ohkubo, N. 1468 Ohler, J. G. 5063 Ohm, H. 6154 Ohmart, C. P. 2594, 3066 Ohnesorge, B. 3000

Ohno, I. 1151, 1696 Ohno, N. 655 Ohno, S. 1145, 1146 Ohsaki, N. 1495 Ohsawa, K. 2127 Ohtani, T. 5367 Ohtsu, Y. 1385 Oka, I. N. 321, 1412, 2402, Oka, I. N. 321, 1412, 2402, 4513, 5028 Okada, M. 1502, 1644 Okada, T. 1133, 2382 Okada, Y. 49 Okajima, S. 4729 Okamoto, A. 808 Okazaki, K. 346 Okda, M. M. K. El- 1140, Ada, M. M. K. El- 1140,

4389
O'Keefe, D. F. 659
O'Keefe, L. E. 4582
O'Keeffe, L. E. 4582
O'Keeffe, L. E. 4579, 4580
Okelo, O. 2707, 3329
Oku, T. 462, 4287, 4521, 5203
Okudaira, H. 641
Okuma, C. 4512
Okumura, G. T. 4657
Oldacre, S. W. 4133
Oldroyd, H. 6003
Oliveira, A. B. de 4520
Oliveira, A. M. 5828, 5829
Oliveira, A. M. 64520
Oliveira, C. A. L. 5623
Oliveira, C. A. L. 5623
Oliveira, C. A. S86, 591, 592, 6498, 6716
Oliveira, J. E. de 188 4389 Oliveira, D. A. 586, 591, 592
6498, 6716
Oliveira, J. E. de 188
Oliver, A. D. 2324
Oliver, C. C. 85
Oliver, E. H. A. 2042, 4322
Oliver, E. H. A. 2042, 4322
Oliver, M. J. 5879, 5880
Olleros, T. 6051
Olmi, M. 256
Oloo, G. W. 4468
Olorode, O. 62
O'Loughlin, J. B. 1120
Olsen, D. 396
Olson, C. S. 2227
Olson, M. H. 5884
Olszak, R. 2445, 3465
Olynyk, J. E. 136
Oma, E. A. 4133
Omar, A. E. 3821
Omar, B. A. 3045
Omole, M. M. 6576
Öncüer, C. 4136
Önder, E. P. 4000
Önder, F. 4095
O'Neill, K. 4190
O'Neill, M. C. A. 4971
Ong, C. A. 3399
Ono, T. 3767, 4745
Onogi, S. 6478
Onsager, J. A. 4133
Onyuike, P. 6646
Ooi, A. C. 3407
Ooi, A. C. 3407
Ooi, A. C. 3407
Ooi, A. C. 9. 1001
Ooi Aun Chuan 322
Ooi, P. A. C. 3408, 6406, 6407, 6423
Openheimer, J. R. 4403
Orchard, J. 2633
Orchard, J. 2633 Oppenheimer, J. R. 4403 Orchard, I. 2633 Orchard, R. D. 4106 Ord, K. 113 Ordish, R. G. 4304

Organisation Européenne et Méditerranéenne pour la Protection des Plantes 635, 1066
Organisation Internationale de Lutte Biologique 3362, 3825
Organization of African Unity 3238
O'Riain, S. 5928
Ormières, R. 6305
Oropeza, H. L. 1655
O'Rourke, F. J. 5923
Orphanidis, A. S. 210
Orphanidis, P. S. 2458
Orshan, L. 71

Oschmann, M. 2774, 2880, Osella, G. 3877 Oseto, C. Y. 264, 1539, 2033, Oseto, C. Y. 264, 1539, 203
6259
Osgood, E. A. 1100
Oshiro, Y. 5514
Osisanya, E. O. 4663
Osman, S. E. 3340
Osmers, K. 2338
Osorio O., M. 5176
Oster, G. F. 2293
Ostlind, D. A. 644, 3219
Ostry, M. E. 3084
O'Sullivan, D. A. 6589
Osuna, J. Ayala 1397
Oswald, T. 1634
Oswalt, T. G. 2290
Ota, A. K. 1377
Ota, K. 3228
Otake, A. 6441
Othman Yaacob 437
Otte, D. 2797, 2798
Ottens, R. J. 3760, 4167
Otto, D. 1812, 6709
Ottogalli, G. 3116
Otvos, I. S. 1592, 2562
Ouden, H. den 5656
Ourth, D. D. 3546, 5321
Overbeck, H. 2023
Overhulser, D. L. 6593, 659 Overhulser, D. L. 6593, 6594 Owens, C. 4886 Owens, C. D. 1342, 4935 Owens, E. D. 954 Owens, J. C. 1395 Owens, E. D. 954
Owens, J. C. 1395
Ownsu-Manu, E. 3053, 4079
Oya, S. 2914
Oyeniran, J. O. 3649
Özar, A. I. 584
Ozawa, T. 6586
Özbek, H. 3980
Özel, M. 4678
Pa Huang 2581
Paclt, J. 5296
Pacova, B. E. 5828
Padgett, W. M. 660
Padhi, G. 1398, 1399
Padhi, S. B. 5795
Padhy, K. B. 4277
Padmanabhan, S. Y. 4515
Padrón T., J. A. 2302
Page, B. G. 3191
Page, F. D. 922, 2416
Page, W. W. 788, 4593
Pagliai, A. M. Bonvicini 4165
Paik, W. H. 1127
Pajni, H. R. 5229, 5306, 5404, 5405, 5807, 5827, 6639, 66666
Pal. A. B. 3001 5405, 5807, 5827, 6639, 6666
Pal, A. B. 3001
Pal, P. K. 286, 1834
Pal, S. 2550
Pal, S. K. 5711
Palaniswamy, P. 1228, 1266, 2204, 2702, 3753
Palchamy, A. 3404
Paliwal, Y. C. 1625
Palka, J. 2190
Pallett, M. J. 100
Palm, E. 3306
Palm, T. 1307
Palma G., J. C. 2465 Palm, E. 3306
Palm, T. 1307
Palma G., J. C. 2465
Palma, V. 1544
Palma, V. de 2029
Palmer, D. F. 6165, 6249
Palmer, J. D. 6189
Palmgren, P. 2831
Palosz, T. 2470
Pamilo, P. 129, 4967, 4968
Pan, Y. C. 315, 1379
Pancaldi, D. 1022
Pande, Y. D. 1857
Pandey, G. P. 2138, 6654
Pandey, K. N. 1237, 4470
Pandey, K. N. 1237, 4470
Pandey, N. D. 1368, 1675, 2550

Ortíz, J. Perusquia 1649
Ortmann, C. 5683
Ortu, S. 3492
Osborne, G. O. 2648, 4154
Osborne, M. P. 50, 1211, 1212, 1703, 2633
Oschwann, M. 2774, 2880
Oschwann, M. 2774, 2880
Oschwann, M. 2774, 2880
Oschwann, M. 2774, 2880 Pandey, S. K. 5355
Pandey, S. N. 1361, 3009
Pandey, S. Y. 2547
Pandey, U. K. 1675
Pandian, T. J. 4958 Panis, A. 2457
Panji, H. R. 5406
Pankanin-Franczyk, M. 3520
Pankhurst, R. J. 1173 Pant, G. B. 898 Pant, N. C. 1693, 2207 Pant, R. 744, 1237, 3254, 4470, 4471, 4472, 4473, 4788 4788
Pant, S. 6098
Pantua, P. C. 904
Panwar, V. P. S. 2895
Papanicolaou, E. P. 2456
Papierok, B. 1635
Papillon, M. 2218, 6288
Papović, R. 5418
Papp, C. S. 22
Papp, J. 3311
Papp, R. P. 1838, 4643
Pappas, S. 5632, 5640
Paquin, R. 5272, 6287
Paradis, R. O. 359, 364, 958, 960, 1439
Paralikar, A. B. 2547
Parameswaran, S. 2537, 5126, 6562 Pardo, E. 5808
Pardo, E. 5808
Pardo, E. 5808
Pardo, R. MartinezPardy, K. E. 6624
Pare, F. 2675
Pareek, B. L. 1924, 2003, 3019, 5663, 5697, 5817
Parencia, C. R. 1046, 2528
Parent, B. 387
Parenzan, P. 993
Parihar, D. R. 5101
Paris, F. Mosquera 6549
Paris, S. 3164
Park, H. G. 448
Park, J. S. 3390
Park, S. J. 3401
Parkash, R. 6093
Parker, B. L. 3143, 4105
Parker, F. D. 2924
Parker, F. D. 2924
Parker, F. D. 1549
Parkin, R. 2100
Parks, L. H. 1543
Parmar, B. S. 5258
Parr, J. C. 4540
Parr, T. W. 3426
Parra, J. R. P. 3054
Parrella, M. P. 3353, 4925
Parry, W. H. 3063, 5743
Parshad, B. 2182, 2343
Parsons, P. A. 2253, 3775, 5289, 5967
Partiaoglou, N. Baudry- 2685
Party, W. H. 6466
Pasalu, I. C. 5036, 5510
Pas'ko, A. K. 6694
Pagol, P. 6349, 6700
Pasqualini, E. 4551, 5606
Pasqui, L. A. 3115
Pass, B. C. 4540, 6242
Passerti, M. 2325
Passlow, T. 3131
Pasteur, L. 3157
Paszek, E. C. 1589
Patalappa 3017
Patana, R. 4459
Pate, R. R. 395
Patel, G. M. 5515
Patel, M. B. 5515
Patel, N. G. 3905, 3935, 6573
Patel, R. C. 476, 4023
Patel, R. K. 2021, 2637, 3924, 3950, 5558, 6377
Patel, V. S. 3905, 3935
Paternot 3806
Paterson, G. D. 804
Pathak, A. K. 52

Pathak, M. D. 2398, 2399, Pathak, M. D. 2398, 2399, 4516, 6404 Pathak, P. K. 898, 3932, 3943, 3945, 4517, 6402, 6419 Patida, G. L. 3919 Patidar, G. L. 3947, 3957 Patil, R. B. 3893 Patil, T. M. 2852 Patirupanuscopp P. H. 6411 Patil, T. M. 2852
Patirupanusorn, P. H. 6411
Patitunda, A. 2021, 5558
Patnaik, H. P. 6643
Patočka, J. 4738
Patok, N. M. 3267
Paton Thom, P. 1663
Paul, A. V. N. 2182, 2343
Paulian, F. 812, 872, 2849
Paulik, W. 2363
Pausch, R. D. 3450
Pauwels, W. J. 219
Pavlova, A. P. 1607
Pavlyuk, R. S. 5183
Pawar, A. D. 815
Pawar, V. M. 775, 2483, 5831
Payne, C. C. 4692
Payne, J. A. 947
Payne, R. W. 6718
Payne, T. L. 524, 539, 3590
Paz, A. Rojo de la 4783
Peacock, A. J. 1790
Peakall, D. B. 1582, 3102
Pearce, P. A. 1582, 5739
Pearson, J. F. 1946, 5878
Pearson, W. D. 6439
Peasley, D. L. 972
Pecora, P. 5506
Pedersen, J. R. 6186
Pedersen, J. R. 6186
Pedersen, L. E. Kruse 819
Pedgley, D. E. 5907
Pedigo, L. P. 2257, 4035, 4036, 6198
Pedretti, C. 3117, 3121
Pedrosa-Macedo, J. H. 2053
Pehrson, I. 4824
Peiu, M. 105, 106, 5378
Pelerents, C. 6691
Pelley, R. H. le 3055
Penatos Robles, R. 5730
Pener, M. P. 71, 757, 1268
Peng, K. 1624
Peng, W. K. 4677
Peng, Y. 1624
Peng, W. R. 4677
Peng, Y. 1624
Peng, W. R. 4677
Peng, Y. 1624
Peng, W.

Peschken, D. P. 1904 Petal, J. M. 126 Petcu, I. P. 839 Petcu, L. 871 Peter, M. G. 5335 Peter Ooi, A. C. 1001 Peter Ooi, A. C. 1001 Peters, L. L. 6153 Peters, T. M. 4884 Peters, W. 1194 Petersen, D. H. 4908 Peterson, E. L. 2255 Pethman, M. 4546 Pet'kova, N. I. 3021 Petrali, A. 3072 Petralia, R. S. 2679, 3735, 6291 Petreko, V. M. 6694 6291
Petrenko, V. M. 6694
Petrik, F. 142
Petrishcheva, V. I. 3523
Petromichelaki, G. E. 210
Petrov, N. S. 6694
Petrov, V. M. 2269
Petrova, A. D. 1357
Petrowitz, H. J. 6331
Petters, R. M. 2227
Petty, J. L. 2589
Petzing, S. M. 6718
Pezzutti, R. 3113, 5534
Pfaffenberger, G. S. 5199
Pfeiffer, G. 1812, 6709
Pfeilsticker, F. J. Zimmermann
5566 5566 5566
Pfrimmer, T. R. 4060
Phadke, C. H. 1031
Phatak, S. C. 3541
Phillip, H. G. 4574
Phillippe, R. 1438, 4543, 4544
Phillips, F. T. 244
Phillips, W. M. 1768
Philogène, B. J. R. 36, 5074, 6100
Phrek Gympmantasiri 439 6100
Phrek Gympmantasiri 439
Piatek, B. 2199, 5775
Picco, A. M. 1450, 5012
Picco, D. 209, 1450
Pick, F. E. 6363
Pickering, J. 3846
Pickett, J. A. 5654
Pickett, K. A. 811
Pickin, S. R. 3969
Pičman, Z. 4862
Piedrahita, J. 1008
Pick, T. 2190, 4766
Pickarczyk, K. 1869, 3539, 3702, 4041
Pienkowski, R. L. 1429, 195 Pienkowski, R. L. 1429, 1953, 2413, 2925 Pierce, H. D., Jr. 2198, 4096, 5213
Pieronek, B. 4650
Pieters, A. J. 3209
Pietraszko, R. 295
Piganeau, P. 2940
Pigati, P. 184
Pigatti, A. 184, 6498
Pigott, R. 2322
Piles, V. Medina 5134
Pillai, G. B. 281, 946, 1960
Pillai, K. Balakrishna 3939
Pillai, K. S. 901, 914, 6542
Pillai, R. K. 4269, 5351
Pilon, J. G. 4836
Pilz, R. 1812
Pimentel, D. 1141, 5028, 5247
Pimsaman, S. 3951
Piña, E. O. Aceves- 4830
Pinchuk, L. M. 3848
Ping, Z. M. 6332
Pinheiro, B. da S. 5037
Pinnock, D. E. 5934
Pinter, P. J., Jr. 483
Pinter, R. B. 752
Pinto, G. L. 472
Pintureau, B. 706, 1657, 1669, 3318, 3732, 6040
Piper, G. L. 273, 854
Piqueras, P. Vargas 3681
Pires, A. 137
Pisarenko, V. N. 2360
Pisarski, B. 117, 127, 4967, 4968, 5759
Piserov, V. 4169
Pishchik, A. A. 5767 Pierce, H. D., Jr. 2198, 4096, 5213

uthor Index tman, G. B. 522, 560 tre, D. 387 tre, H. N. 6321 ttaway, A. R. 1844, 6128 ttman, R. J. 4131 zzamiglio, M. A. 5427 zzol, J. 1669 ague Locust Commission, Australia 6272 akidas, J. D. 2825 LANALSUCAR, Brazil 1916 ant Protection Research Institute, Zimbabwe 4720 ant Protection Service, German Federal Republic 2162
app, F. W., Jr. 4069
atner, G. R. 2501
aza, E. 697, 791
immer, J. R. 1589, 1676,
1735, 5328, 5329, 6461
otnikov, N. A. 3081
owright, R. C. 100
umb, R. T. 3440
odgwaite, J. D. 615, 1072,
1130, 1568, 2571, 4913
ddlasek, S. 6256
doler, H. 4560, 4561
idová, M. 5234
odufal, C. Hintzebe, S. L. 77, 838, 919, 1029,
4032
behlman, J. M. 445 De, S. L. 77, 838, 919, 1029, 4032

behlman, J. M. 435

bel, P. J. G. Verschoor-Van der 195

binar, G. O., Jr. 4139

bintel, J. G. 1657, 3146, 4879, 6020

bitout, S. 1669, 1850, 2998

bkharkar, R. N. 2242, 2494, 2495, 3020

bkrovskaya, I. V. 1357

blivanova, E. N. 2187

bllack, E. H. 4926

bllard, E. 1856

bllet, D. K. 3485

bllini, A. 5741

bltavskii, A. N. 5419

bltev, V. I. 3862

blyakov, I. Ya. 3187, 3378

blyrakis, J. 3507

meranz, Y. 6177

nngprasert, S. 2397, 3414

bnnamma, K. N. 360, 5052

bnomareva, R. E. 1448

bnsen, M. B. 3733

bnt, A. C. 6003

bntivy, G. R. de 3600

bpe, D. N. 542

bpe, R. D. 6614

bphali, D. J. 3947, 3955, 3957

bphaly, D. J. 3919

bpińska, H. 2445 3957
phaly, D. J. 3919
pińska, H. 2445
ple, M. 2750
pov, A. V. 750
pov, C. 756, 812, 871
pov, E. T. 6297
pov, P. 1391, 2504, 2873
pova, A. I. 4980
povici, N. 1719
pow, G., Jr. 5536
prokeron, P. 2218, 2220, 4769, 4781, 4782, 5341, 6288 6288 6288
orshnyakov, G. A. Mazokhin2251, 4740
orter, C. C. 3099, 4443
orter, R. E. R. 2919
ortig, J. 3180
orto, M. D. M. 1516
ostlethwait, J. H. 759
oston, F. L. 305, 2257, 3774,
4036, 5535, 6159, 6160,
6161 ptotskaya, V. A. 580 otrikus, C. J. 4223 otskhveriya, A. M. 2437 ottinger, R. P. 5868, 5870, 5887 6161

Potts, M. F. 6172 Povolný, D. 4728 Powell, J. A. 1176, 5434 Powell, J. E. 660 Powell, R. D. 2548 Pozzani, L. Pereira 185 Prabhu, V. K. K. 1808, 3273, 3719, 4164 Pradhan S. 6116 3719, 4164
Pradhan, S. 6116
Pradhan, S. K. 6571
Prakasa Rao, P. S. 3944, 3958, 3959, 3961, 5563, 5564
Prakash, A. 5510
Pralavorio, M. 501
Pralavorio, R. 1779
Prasad, D. 2461, 2554
Prasad, H. 2035, 2272, 2509, 5221
Prasad Prasad, N. K. K. 1555, 3050 Prasad, N. N. 5552 Prasad, P. K. K. 1555 Prasad, R. 2473
Prasad, S. K. 1999, 2468
Prasad, V. G. 426, 6553
Prasad, Y. 2272
Prasada Rao, R. D. V. J. Prasad, Y. 22/2
Prasada, Rao, R. D. V. J.
5676, 6528
Prasada Rao, U. 5548
Pratap Singh 3247
Pratt, G. E. 56, 1716, 5343
Pravdin, F. N. 2755
Prawirodisastro, M. 6185
Pré, L. F. La 3992
Pree, D. J. 3486, 3998
Prema, A. K. 5318
Press, J. W. 2099
Prevett, P. F. 3625
Prévost, Y. H. 1781, 6095
Price, E. C. 446, 3902
Price, J. F. 1440
Price, N. R. 4263
Price, P. W. 270
Price, R. G. 1047
Prickett, A. J. 5814
Priesner, E. 1726, 3509
Prieto S., V. 5125
Primatchenko, L. V. 4679
Primiani, M. 5328, 5329
Primo-Yufera, E. 2148
Prinsloo, G. L. 258, 4209, 4988
Priori A. 3120 4988 Priori, A. Pritchard, G. 6118 Pritchett, D. W. 608 Privat, F. 5133 Privee, H. 763 Processors and Growers Processors and Growers
Research Organisation,
United Kingdom 4176
Profita, J. C. 1063
Programa Nacional de
Melhoramento da Cana-da-Açúcar, Brasil 289
Prokopy, J. 4892
Prokopy, R. J. 1453, 2245,
2441, 4552, 4905
Prola, C. 1309
Proshold, F. I. 64, 70
Provansal, A. 746
Provansal-Baudez, A. 2685 Provansal, A. 746
Provansal, A. 746
Provansal-Baudez, A. 2685
Proveaux, A. T. 6058
Provera, P. 1309
Prueffer-Klein, K. 3516
Pruss, K. P. 1875, 6295
Pruscha, H. 5340, 5365
Pschorn-Walcher, H. 2356, 4630
Pucci E. 5517 4630
Pucci, E. 5517
Puertas, M. J. 4964
Pujari, K. C. 1479
Pulev, V. 3183, 5845
Pulido F., J. 6522, 6523
Pulley, P. 2559
Pulley, P. E. 542, 1581
Pullin, J. S. 5844
Punnaiah, K. C. 5659
Pupavkin, D. M. 1345
Purcell, A. H. 2101, 5060, 5591
Puri, M. K. 6477
Puri, S. N. 6524
Purkayastha, B. K. 2345
Purohit, M. S. 5515

Purrington, F. F. 565, 1191, 6211, 6212 Purrini, K. 546, 1104, 2107, 4645 Purser, G. C. 6595 Purves, R. G. 5882 Purvis, G. 3437 Pushkarev, B. V. 5250 Pusvashkite, O. 5393 Pusvaškytė, O. 5393 Puszkar, T. 128 Putta, M. 3406 Putta, M. 3406
Puttaswamy 994
Puttler, B. 352, 5665
Pye, A. E. 5206
Pyle, K. R. 4006
Pyörnilä, A. 2178, 3569
Pyörnilä, M. 2178, 3569
Qawiyy, O. J. 4900
Qayyum, H. A. 3628, 4982
Qazi, A. R. 669
Quadros Ribeiro, W., Jr. 189
Quayum, M. A. 6116
Québec, Conseil de Recherches
et Services Agricoles 4177 Québec, Conseil de Recherches et Services Agricoles 4177 Quednau, F. W. 5210, 5402 Queensland, Bureau of Sugar Experiment Stations 3880 Quezada, J. Rutilio 1661 Quickelberge, C. D. 18 Quinlan, J. 4736 Quinlan, J. K. 2784, 4125, 6171 Quinlan, R. J. 241 Quinn, W. G. 4830 Quirino, C. B. 446 Quisenberry, J. E. 4071 Quisenberry, S. S. 1945 Quisenberry, J. E. 4071 Quisenberry, S. S. 1945 Quistad, G. B. 1152 Qureshi, A. L. 4031 Rabasse, J. M. 5482, 5790 Rabb, R. L. 167, 497, 1012, 1272, 2263, 2481 Rabbinge, R. 1830, 1981 Rabeni, C. F. 2073 Rabenstein, F. 5518 Raboud, G. 5589 Raccah, B. 2103, 3150, 5099, 6479 Racheli, T. 1309 Racheli, T. 1309 Rachvelishvili, E. V. Rack, G. 3244, 6642 Radchenko, Yu. D. 670, 3360, 6361
Radcliffe, E. B. 3533, 3535, 6231, 6232, 6234
Radev, R. 2962
Radeva, K. 2312
Radhakrishnan, S. 6527
Radović, I. 6115
Radovsky, F. J. 5429
Radwan, H. S. 4065
Radwan, H. S. A. 223, 681, 682, 2478, 4378, 4381, 4382, 4385
Rafaeli, A. 4773 6361 4385
Rafaeli, A. 4773
Rafes, P. M. 4099
Raff, E. C. 1791
Raff, R. A. 1791
Raffa, K. 581
Rage, P. 1337
Ragheb, D. A. 4380, 4387
Raghunath, T. A. V. S. 2349, 2350, 2369
Ragsdale, D. W. 4037
Ragunathan, V. 5676
Raha, S. K. 2820
Rahalkar, G. W. 361, 5354, 5716 5716 Rahman, A. A. El- 4062, 4342 Rahman, A. M. Abdel- 3815 Rahman, A. S. Abdel- 1039 Rahman, A. S. M. A. El-1040, 1041 1040, 1041 Rahman, H. A. Abdel-6219 Rahman, M. M. 3870 Rahn, R. 3030 Rai, L. 2637 Rai, P. S. 886, 1401, 1499, 3033, 3381, 3974, 5549, 5557, 6381, 6418 Rai, S. 2405 Raina, A. K. 4779

Rainey, R. C. 236, 1172, 1278, 3573, 5745, 5896, 5902, 5905, 5917
Raiser, E. 4451
Raj, K. Gunathilaga 5116
Raj, N. S. 3233
Rajamani, S. 1408, 3392, 5034, 5036 Rajendra Singh 2839, 5100, 5108 Agiendra Singin 2839, 3100, 5108
Rajendran, B. 859, 4508
Rajendran, R. 426, 6525
Rajgopal, S. 5485
Rajgopal, S. 5485
Rajukkannu, K. 5702
Rak, H. van 6328
Rakauskas, P. 1765
Ram, M. 2345
Ram, S. 5830, 6667
Ramachander, P. R. 1494
Ramachandran, B. V. 645
Ramachandran, C. P. 5052
Ramade, F. 4262
Ramaiah, E. 1969, 2431
Ramaiah, T. R. 3276
Ramakers, P. 200
Ramakers, P. M. J. 202, 423, 1634, 3808
Ramakrishna, N. 645 1634, 3808
Ramakrishna, N. 645
Ramakrishnan, K. 2978
Ramakrishnan, N. 3161, 6684
Ramakrishnan, U. 334, 3614, 4010 Ramalho, F. S. 1009, 5664, 5701 Ramamurthi, B. N. 6346 Ramamurthy, V. V. 1930, Raman, K. V. 1528 Ramanarayan, E. P. 6579 Ramanarayan, E. P. 6579
Ramaprasad, G. 6574
Ramasubbaiah, K. 2379
Ramaswamy, S. B. 4910
Rambajan, I. 2373, 6387
Ramdev, Y. P. 1814, 2505
Rameshwar Singh 5697
Ramírez Choza, J. L. 2308, 2309 Ramírez, J. G. Loya 23 2309
Ramírez, J. G. Loya 2295
Ramírez, J. Loya 2303
Ramiro, Z. A. 6519
Ramos, J. M. 405, 984
Ramos, P. 405, 984
Ramsay, G. W. 4718
Ramsadell, D. R. 3458, 4549
Ramser, E. 2117
Ramzan, M. 1933
Rana, B. S. 2406
Rand, J. R. 927
Randall, J. H. 1990
Randell, R. 4026
Rane, P. D. 797
Ranera, J. A. Tinaut 3836
Ranga Rao, P. V. 2428
Rangadhamaiah, K. 2815
Rangaswamy, H. R. 1464, 4054
Ranin, O. 158 Ranin, O. 158 Rankin, M. A. 4222, 6081, 6730 Rankin, M. A. 4222, 6081, 6730
Rankin, S. M. 6081
Ranta, Y. 3785
Rao, A. Ganeswara 2379
Rao, A. Sudhakar 6528
Rao, B. H. K. 344, 6345
Rao, B. K. 3233, 3234
Rao, B. N. 3874
Rao, B. R. S. 702, 2370, 4447
Rao, C. B. 6412
Rao, C. S. 6345
Rao, D. R. 5485
Rao, G. M. 1406, 5033
Rao, G. N. V. 2010
Rao, G. V. 6412
Rao, J. R. K. 1931, 3937
Rao, K. Hanumantha 2211
Rao, K. J. 1417, 1427, 1493, 2815, 3416
Rao, K. J. 2369
Rao, L. V. A. 6577, 6580, 6581
Rao, N. G. P. 2406 Rao, N. G. P. 2406 Rao, N. S. 401, 5634, 5635 Rao, N. Venugopala 2379

5564 Rao, P. S. P. 1398, 1399, 3944, 3958, 3959, 3961, 5555, 5563, 5564

Rao, P. Sanjeeva 2379 Rao, P. V. 3559 Rao, P. V. Ranga 2428 Rao, P. V. S. 890, 5035 Rao, R. D. V. J. P. 5676, 2379 Rao, P. V. S. 890, 5035
Rao, P. V. S. 890, 5035
Rao, R. D. V. J. P. 5676, 6528
Rao, S. R. V. 4272
Rao, S. V. 5650, 6345
Rao, U. P. 5548
Rao, V. G. 1031
Rao, V. R. 6412
Rao, Y. R. V. J. 5559
Raodeo, A. K. 5677, 6428
Raof, T. K. Abdel- 680
Rapley, P. E. L. 1120, 5416
Rappaport, N. G. 3707
Rapport, E. W. 731
Raros, L. A. Corpuz- 6004
Rascón, J. Aguirre 2307
Rashad, A. 4743, 5357
Raske, A. G. 3065
Rasmuson, T. 748
Raspopov, P. M. 4099
Raszka, A. 2644
Rathore, Y. S. 1819, 1820, 3832, 4044, 5815, 5830
Rattan, S. 4289
Ratti, E. 1971
Rau, D. E. 1570
Rauch, P. A. 2580
Raulston, J. R. 64, 92
Raupp, M. J. 925
Rauscher, S. 3988, 3989
Rautapää, J. 1289, 4591, 5379
Rawash, I. A. 3815
Rawat, R. R. 2021, 2487, 3221, 5558, 5561, 6409
Rawls, J. M., Jr. 734
Rawther, T. S. S. 6446
Ray, A. 720
Ray, D. E. 1158
Ray, G. L. 6399
Raychaudhuri, D. N. 286, 1020, 1824, 272, 2820, 1824, 1824, 2820, 1824, 2820, 1824, 2820, Raychaudhuri, D. 2820 Raychaudhuri, D. N. 286, 1089, 1834, 2738, 2820, 1089, 1834, 2738, 2820, 3777

Raymond, J. C. 5589, 6546
Raymundo, S. A. 3918
Rayner, J. M. V. 781
Raziuddin, M. 1324
Razowski, J. 3246, 3596
Read, J. S. 688
Readshaw, J. L. 5950
Reagan, T. E. 497, 3560
Reames, S. E. 3265
Reardon, R. 3100
Reay, R. C. 4706
Rechnio, H. 6448
Reckhaus, P. 3029
Reddy, A. A. 1857
Reddy, A. R. 856
Reddy, D. V. R. 1969
Reddy, D. B. 318
Reddy, D. V. R. 2020
Reddy, E. M. 1709
Reddy, K. V. S. 6353, 6427
Reddy, P. N. 1492
Reddy, P. N. 1492
Reddy, P. N. 1492
Reddy, P. V. 728
Redfern, R. E. 1166
Redlinger, L. M. 4115
Redner, J. H. 1880, 2816
Reed, D. K. 3470, 6235
Reed, H. C. 1341, 4448
Reed, J. T. 2783
Reed, T. 5991
Reese, C. D. 5781
Reeve, R. J. 3500
Refai, A. A. El- 1149
Regas-Williams, K. A. 4485
Regey, U. 353
Reggi, M. de 2221, 2222 Regev, U. 353

Reggi, M. de 2221, 2222

 Rao, P. J.
 1814, 2319, 2505
 Reggi, M. L. de 746

 Rao, P. K.
 3614, 4010
 Régnière, J. 2263

 Rao, P. R. M.
 3944, 3958, 3959, 3961, 5555, 5563, 3038, 4083, 5236
 Regupathy, A. 283, 1928, 3038, 4083, 5236

 Régnière, J. 2263 Regupathy, A. 283, 1928, 3038, 4083, 5236 3038, 4083, 5236
Rehbinder, E. 3182
Rehman, H. 882
Reichmuth, C. 599, 4118
Reid, J. A. K. 1027, 6146
Reilly, T. L. C. 1954
Reinecke, J. P. 4246, 6096
Reinert, J. A. 3445, 3488, 3502, 4566
Reinhart, P. 2788
Reis, E. M. 5107
Reiser, B. 4668
Reisinger, O. 4135
Reissig, W. H. 382, 389, 4896, 4923
Reiesus, R. S. 447, 2384 Reissig, W. H. 382, 389, 4896, 4923

Rejesus, R. S. 447, 2384

Rejmánek, M. 562

Remadevi, O. K. 1881

Remaley, S. 5422

Remanony, K. S. 1996

Remaudière, G. 1659

Remaudière, G. 3363

Rembold, H. 4494

Rémy, C. 2700, 4966

Renfer, A. 3663

Renner, K. 4675

Renou, M. 3030, 3509

Rensburg, N. J. van 557

Rentz, D. C. F. 1841, 5291

Renwick, J. A. A. 522, 4238

Resh, V. H. 5429

Respicio, N. C. 4897, 4910

Restrepo, M. Bernal 5180

Retnakaran, A. 1094, 1167

Reulecke, T. 3581

Réunion, Institut de Recherches

Agronomiques et des Agronomiques et des Cultures Vivrières 694 Revathy, D. 3233, 3234 Revell, R. J. 163 Rexrode, C. O. 569 Rey, C. 4424, 6546 Rexrode, C. U. 309 Rey, C. 4424, 6546 Rey, J. M. 806 Rey, J. R. 2311 Reynolds, D. R. 5912 Rezende, J. A. M. 1381 Reznikova, Zh. I. 2802 Rezende, J. A. M. 1381
Reznikova, Zh. I. 2802
Rheinlaender, J. 1329
Rheuben, M. B. 3750
Rhodes, F. H. T. 3241
Rhodes, H. A. 3718
Rhomberg, L. 5160
Ribbeck, R. 4440
Ribeiro, C. M. 183
Ribeiro, G. T. 5770
Ribeiro, W. Quadros, Jr. 189
Ribi, W. A. 2703
Ribo, J. 2148
Rice, R. E. 2434, 5276
Richard, C. 5050
Richards, A. G. 4212
Richard, C. 5050
Richards, A. G. 4212
Richardson, J. 2028
Richardson, J. 2028
Richardson, J. 7290
Richardson, R. 6252
Richardson, J. C. 4899
Richardson, R. 6252
Richerson, J. V. 539, 3590
Richmond, R. C. 1796, 5320
Richter, E. 4710
Richter, E. 4710
Richter, E. 4604
Ricou, G. 3432
Riddiford, L. M. 2717, 3252
Ridgway, R. L. 2526
Ridsdill Smith, T. J. 5884
Rieckmann, W. 3014
Riedl, H. 2435, 2932, 5369
Rick, R. F. 644
Rihs, K. 659
Rijks, A. A. WiebesRijsdijk, F. H. 1913
Riley, J. R. 1280, 1281, 4868, 5912
Riley, T. J. 1396
Rilishkene, M. 5336

Siley, T. J. 1396 Rilishkene, M. 5396 Rilishkene, M. A. 3339 Ring, D. R. 3462 Rings, R. W. 2691, 3826 Rinsvelt, H. A. van 2323

Riom, J. 1598, 3075, 3854 Ripa S., R. 6268 Riscado, G. M. 1375 Risch, S. J. 6371 Riscoe, R. 3168 Riska, B. 5160 Riskallah, M. R. 57, 4156, Riskallah, M. R. 57, 4156, 4360
Ritchie, J. M. W. 5887
Ritchot, C. 311
Ritter, F. J. 1721, 1722
Rivard, I. 359, 960
Rivero, J. M. del 3388
Rivers, C. F. 2113
Rivers, R. L. 1939
Rivière, J. L. 2315
Rizk, G. A. 4336, 4337, 4402
Rizk, G. A. 4336, 4337, 4402
Rizk, G. A. M. 4378, 4385
Rizk, M. M. 4340, 5525
Rizk, R. A. 2535
Rizk, R. A. 2535
Rizvi, S. M. A. 5691, 5706
Roach, S. H. 776, 3039
Robards, G. E. 4670
Robas, G. Ya. 6712
Robbins, J. C. 2012
Robbins, J. C. 2012
Robbins, W. E. 3749, 3838
Roberds, J. H. 5191
Robertson, J. 1847
Robert, J. C. 3771
Robert, J. C. 3771
Robert, J. C. 3771
Robert, P. H. 4135
Roberts, H. 6615
Roberts, H. 8. 5981
Roberts, H. 8. 5981
Roberts, H. 8. 5981
Roberts, H. 8. 5981
Roberts, H. B. 5981
Roberts, J. E. 4927, 4928, 4929
Roberts, J. E., 4927, 4928, 4929
Roberts, L. I. N. 4823 4360 4929 Roberts, J. E., Sr. 4934 Roberts, L. I. N. 4823 Roberts, R. J. 5884 Roberts, S. J. 3450 Roberts, T. R. 5985 Robertson, J. L. 2071, 2072, 2275, 2641, 3707, 5154, 5155 5155 Robertson, L. N. 5865, 5870, 5887 Robertson, P. L. 2803 Robinson, A. 4284 Robinson, A. G. 144, 4971, 6016, 6017 6016, 6017 Robinson, A. S. 2261, 4699 Robinson, B. 2778 Robinson, D. P. 6234 Robinson, D. W. 5924 Robinson, G. S. 2088, 6026 Robinson, S. H. 1543, 2518 Robinson, S. H. 1543, 2518 Robinson, S. W. 2232, 3839, 4430
Robinson, W. H. 4488, 6707
Robitaille, M. 6287
Robles, R. Penatos 5730
Rocha, A. C. M. 5828
Rocha, A. D. da 3976, 5623
Rocha e Silva, I. 1186
Roche, R. 4076
Rocque, B. de la 6355
Rodríguez Brayo. P. 1672 4430 Rodríguez Bravo, R. 1672 Rodriguez, J. G. 807, 4408, Rodriguez-Rueda, D. 6672, 6680
Roechan, M. 1932
Roehrich, R. 3988
Roelofs, W. 1729
Roelofs, W. L. 2691, 3504,
4618, 4896, 4904, 4923,
5276, 6731
Roesingh, C. 3525
Roffey, J. 2320, 5906, 5915
Rogers, C. E. 478, 2034, 2036,
3543
Rogers, D. 108 6680 3543 Rogers, D. 108 Rogers, D. J. 6511 Rogers, R. R. 6254 Rohitha, B. H. 5881 Rohrmann, G. 4685 Roistacher, C. N. 5629 Roitberg, B. D. 1262, 1506 Rojas-Rousse, D. 6049 Rojo de la Paz, A. 4783

Rok Jing Oh 3249 Roling, M. P. 6150 Röller, H. 6083 Rolston, L. H. 4725 Roman, E. 828 Roman, S. A. 660 Romankow, W. 5048 Romankow-Żmudowska, A. 1869 Romero, A. 4949 Romero, F. Saume 6698 Romero, F. Saume 6098 Romine, C. L. 1627 Ronchetti, G. 5461, 5462 Room, P. M. 4598, 4599, 4608, 5944, 6569 Roonwal, M. L. 4463 Roorda, F. A. 6657 Rosaiah, B. 3874 Rose, D. J. W. 4496, 5908, 5918 5918
Rose, H. A. 1518
Rose, H. S. 6639
Rose, M. 1197
Rose, R. I. 445
Rosen, D. 1195, 1196, 1197, 2841, 4560, 4561
Rosen, J. D. 2146
Rosenberg, C. 1491
Rosengren, R. 129, 2807, 4967, 4968
Rosiński, G. 2686 Noselgieli, K. 129, 2807, 4967, 4968
Rosiński, G. 2686
Roskam, J. C. 5190
Ross, R. J. 1266, 2702, 6601
Rossem, G. van 533
Rossetto, C. J. 1381, 4074
Rossi, D. 4854
Rossi, D. 4854
Rossi, M. G. C. 4138
Rossi, R. 743
Rossi, W. 4138
Rossler, Y. 1037
Rossler, Y. 2228
Rostom, Z. M. F. 4373
Rostsishevskaya, M. 1192
Rotariu, A. 6261
Roth, R. R. 4915
Rothamsted Experimental
Station, United Kingdom Station, United Kingdom Rothenbuhler, W. C. 4803 Rothschild, M. 726, 5450, 6344 Rotrekl, J. 3448 Röttger, D. Jördens- 1824, 2735 Röttger, D. Jördens2735
Röttger, U. 211, 465
Rotundo, G. 1162, 5633, 6132
Rouault, J. 4990
Roush, R. T. 3994, 4805
Rousse, D. Rojas- 6049
Rousseau, A. J. 6682
Roussel, G. 3813
Roussel, J. P. 5456, 5987
Rout, G. 6643
Roux, A. M. le 4436
Rowan, A. N. 1805
Rowe, I. M. 303
Rowe, R. C. 6537
Rowe, J. M. 303
Rowe, R. C. 6537
Rowell, C. H. F. 753
Rowell, C. H. F. 753
Rowell, H. J. 5293
Rowland, C. M. 1859
Roy, J. K. 5560, 5562
Roy-Noël, J. 130
Roy, P. 5810
Roy, S. 1794
Royama, T. 108
Royooka, D. B. A. 5490
Rózsa, K. S. 2212
Ru, N. 979, 1000
Rubtsov, I. A. 621
Rudinsky, J. A. 548, 549, 2596, 3606, 4620, 5204, 5992
Rudnicka, M. 3268 5992 Rudnicka, M. 3268 Rueda, D. Rodriguez- 6672, 6680 Rueda, M. A. Gómez 5124

uthor Index uesink, W. G. 3889, 6138, 6168, 6250 ufer, R. 5537, 6530 uhendi 3952 ukavishnikov, B. I. 2124, ummel, D. R. 4071 umyantsev, P. P. 2183 unnacles, J. 5507 up, P. J. 1004 uppel, R. F. 6245 upple, R. F. 6244 ushing, K. W. 2511 uškuc, D. 5030 ussell, R. M. 2275 ussell, P. M. 6657 ussell, V. M. 6657 ussell, W. A. 6254 ust, M. K. 5119 uszkowska, M. 2875 ummel, D. R. 4071 uszkowska, M. 2875 utherford, D. 4706 uszkowska, M. 28/3
utherford, D. 4706
utilio Quezada, J. 1661
utowski, R. L. 5326
utschky, C. W. 4889
uud, R. L. 75, 3553
uyooka, D. B. A. 262, 2842
užička, Z. 103
uzo, L. O. 656, 3544
yabinin, N. A. 7
yan, J. 6506
yan, M. F. 3428, 4213, 5927,
5928, 6506
yan, R. B. 529, 530
yapolov, V. Ya. 5791
ybin, S. N. 5419
yerson, S. A. 260
ygg, T. 5013
yker, L. C. 2596, 3606, 5992
yliškienė, M. 3339, 5396
ynne, K. P. 930
yu, J. 3401 yu, J. 3401 zhevtseva, N. N. 2945 iad, A. F. S. A. 225, 227, 3820 ad, A. S. A. 3798, 3819, 3821 Hadany, G. El- 2535, 4327, 4328, 4329, 4331, 4343, 4352, 4355 iarenmaa, H. 5771 iaristo, M. 800 hansto, M. 800 hba, F. 3996 hbrosky, C. W. 5479 hechi, L. 4757, 4777, 5312 hechi, V. F. 6067 hehan, G. C. 3832, 4044, 5815
Ichan, J. N. 2378
Idana, G. L. 935, 6487
Iddik, A. 4350
Iddik, S. 4351
Idov, A. V. 3862
Ifonkin, A. F. 5796
Ifranek, L. 6078, 6082
Ihota, T. S. 2059, 5153,
5212, 6603
Ihu, R. K. 6401
Ihu, V. N. 6401
Igusa, T. 1827, 5372
Iiler, R. I. 979
Iillard, C. 1470 5815 979 1470 illard, C. 1470 ini, M. S. 2665, 2677, 3680 ini, S. S. 3894 into, O. 313, 4521 ito, T. 790, 4640, 4848, 5008 itô, Y. 719, 1261, 719, 1261, 5018, 5921 ivaraj, K. 3922, 5118, 5702 ijan, S. S. 5497 kagami, Y. 5082 kaguchi, B. 4261 kaguchi, B. 4261 kai, H. 1411 kai, M. 1224, 2628 kaluk, S. K. 6043 kamura, S. 4516 kate, S. 4827 kharov, V. M. 1643 kimura, K. 4190 klani, U. D. 471 kuratani, Y. 6121 lama, A. 222

Salama, H. S. 4400 Salama, M. A. 3816 Salazar Moreno, M. A. 1672 Salazar Moreno, M. A. 167 Salbert, P. 4930 Saleh, M. A. 1160, 4370 Saleh, M. R. A. 363, 2422, 2423, 2424, 2425 Saleh, M. S. 4369 Salem, A. A. 468 Salem, I. E. M. 224, 3796, 3822 Salem, I. E. M. 224, 3796, 3822
Salem, M. S. 4366, 4369, 4370
Salem, M. S. 4366, 4369, 4370
Salem, Y. S. 4333
Sales, F. M. 472
Salkeld, E. H. 4739
Salman, A. G. A. 4339, 4356
Salsbury, G. A. 1835
Salter, S. S. 4073, 5273
Salvadori, P. A. 743
Salvisberg, W. 5344
Samal, P. 327
Sambeck, J. W. van 6729
Sambuco, C. P. 5350
Samersov, V. 2867
Samosudov, V. N. 3456
Sampong, M. Agyen-6417
Samson, P. R. 4058
Samson, R. A. 1634
Samuelson, G. A. 1833
Samways, M. 1531
Samways, M. 1531
Samways, M. 1531
Samways, M. 2498, 5735
Sanabria, G. L. R. de 6549
Sanborn, S. M. 6230
Sances, F. V. 2426, 3986
Sanchez, B. W. 2983
Sánchez-Boccherini, J. 3366
Sánchez, J. 4965
Sánchez, N. Blanco, 4033 Sánchez, J. 4965 Sánchez, N. Blanco 4033, Sánchez Navarrete, F. 1672 Sánchez Navarrete, F. 1672 Sander, E. 4583 Sanders, C. J. 1594, 1737, 3582, 5279 Sanders, D. J. 5185 Sandhu, G. S. 398, 415, 1478, 1558, 1925, 2419, 2420, 2447, 2451, 5719 Sandhu, J. S. 2353 Sandhu, T. S. 444 Sandhu, J. S. 2335
Sandhu, T. S. 444
Sandino, E. J. Urueta 6450
Sandlan, K. 2834
Sandlan, K. P. 3740
Şandru, I. 5692
Şandru, I. D. 3047
Sands, D. P. A. 1402
Sanford, L. L. 5689
Sangappa, H. K. 1492
Sanjeeva Rao, P. 2379
Sankaran, T. 1057, 1363
Sankpal, V. B. 6375
Santa, H. 1133
Santander, C. 1075
Santas, L. A. 6302
Santhakumari, K. 3032
Santhanakrishnan, K. 684, 1434, 2934 1434, 2934 Santharam, G. 3010, 5236 Santiago-Alvarez, C. 2291, Santiago-Alvarez, C. 2291, 3232
Santis, L. de 4442, 5410, 5507
Santos, B. M. 1544, 1545, 1546, 3016
Santos, C. E. dos 1215, 3288
Santos, J. P. 6178
Santos Vieira, A. O. 187
Sanyal, P. K. 5706
Sanzhimitupova, R. D. 1322
Sapelkin, V. K. 6694
Saradamma, K. 901
Sarasua, M. J. 3871
Sarawak, Department of Agriculture 2651, 5968
Sardar Singh 1860
Sarder, S. A. 6116
Sarhan, A. A. 1042
Sarin, K. 3671, 5818
Sarkar, D. 4507
Sarkar, D. K. 5258
Sarkar, K. 8474
Sarkar, M. 6420
Sarkate, M. B. 6428
Sarkisyan, S. M. 2847, 2848
Sarkisyan, S. M. 2847, 2848 3232

Sarma, P. K. Sen 2572, 2843, 6330 Sarma, P. V. 1056, 1319 Sarmiento, J. A. Vidal 4442 Sarooshi, R. A. 972 Sarrazin, C. 1878 Sartwell, C. 536, 4106, 6593, Sarup, P. 2894, 2895, 2896, 3222 Sas, J. van 197 Sasakawa, M. 1557, 1602 Sasidharan, N. K. 6396 Sasakawa, M. 1557, 1602
Sasidharan, N. K. 6396
Sasmal, N. 858
Sass, O. 2878
Sathiamma, B. 1960, 6446
Sato, A. 5038, 6111
Sato, R. 739, 2692, 6458
Sato, T. 2112, 4511
Sato, Y. 180, 1224
Sattar, M. M. A. El- 1149
Sattelle, D. B. 172
Satyanarayana, S. V. V. 6574
Satyanarayana, T. 5271
Sauls, C. E. 1748
Saume Romero, F. 6698
Saunders, J. L. 4506
Saunders, J. L. 4506
Saunders, J. L. 4506
Saunders, T. S. 1334
Saunders, T. S. 1334
Savchenko, T. V. 5963
Savin, N. E. 2275
Savkovskiř, P. P. 3128
Savotikov, Yu. F. 2888
Sawaf, S. K. El- 30, 4398, 5824
Sawaikar, D. D. 3834 Sawaikar, D. D. 3834 Sawall, E. F., Jr. 250 Sawicki, R. M. 1143, 1694, 6718 Sawoniewicz, J. 2075 Sawyer, A. J. 6139, 6140, 6263 6263
Saxena, R. C. 2399, 5263
Saxena, V. S. 1712, 4151
Saxena, Y. 1718, 1782, 6711
Sayed, A. M. K. El- 2634, 4339, 4340
Sayed, E. I. El- 4374
Sayed, M. M. El- 4364, 4392
Sbordoni, V. 1309
Scali, V. 6673
Scaramogzino, P. L. 5617 Scali, V. 6673 Scaramozzino, P. L. 5617 Scarbrough, A. G. 2336, 3857 Scattini, W. J. 930 Schaefer, C. W. 6127 Schaefer, G. 2330 Schaefer, G. W. 1281, 5745, Schaefer, G. W. 1281, 5745, 5913
Schaefer, M. 2745, 2746
Schaefer, M. 2745, 2746
Schaefer, P. W. 2569
Schaefers, G. A. 5586
Schafer, M. P. 4685
Schalk, J. M. 6551
Scharpf, R. F. 4643
Scharstein, H. 6285
Schatlu, W. 2689
Schedl, K. E. 2079, 4724, 5144
Schedl, W. 3730
Schefczik, K. 5984
Schedl, W. 3730
Schefczik, K. 5984
Scheidl, W. 3730
Schefczik, L. 5413
Schembri, J. L. 5413
Schembri, J. L. 5413
Schembri, J. L. 6160
Schenck, J. L., Jr. 3774
Schenk, A. 5493
Schenk, J. A. 6635
Schicha, E. 1957
Schilling, P. E. 5062
Schittek, D. 3165, 5848
Schliesske, J. 3812, 5075
Schmidt, D. 1137
Schmid, A. 1982, 2433, 3989, 5589
Schmidt, E. 6349, 6700
Schmidt, E. 6349, 6700
Schmidt, E. 6349, 6700 5913 Schmidt, E. 6349, 6700 Schmidt, G. 691 Schmidt, H. B. 5518, 6503

Schmidt, H. U. 588, 594, 3129, 4118, 4678 Schmidt, J. 1619 Schmidt, J. O. 2204, 3598, 6601 6601 Schmitz, B. 6285 Schmutterer, H. 137, 4494 Schmutzenhofer, H. 5164, 5167, 5168, 5172, 5174 Schneider, J. C. 4931, 5742 Schneider, M. 5456 Schneiderman, H. A. 2647 Schneiter, W. 5682 Schoeman, A. S. Dippenaar 6328 6328 Schoenberg, J. 4710 Schoenbolm, R. B. 3379 Schoener, T. W. 5313 Schoenig, G. P. 1862 Scholl, C. 5825 Scholten, K. F. 2122 Scholze, P. 5452 Schönherr, J. 2061, 3581, 4644 Schooley, D. A. 1152 Schooneveld, H. 763, 1717, 6328 Schooneveld, H. 763, 1717, 1872
Schoonhoven, A. van 1008, 1024, 1025, 6658
Schopf, R. 4625
Schriber, J. M. 4283
Schroder, D. 5505
Schroder, R. F. W. 457
Schroeder, W. J. 4556
Schubert, P. 1702
Schubert, P. 1702
Schuder, D. L. 559
Schulter, G. G. M. 6657
Schultz, G. A. 6228
Schultz, J. C. 4932, 5753
Schultz, J. E. 4464
Schultz, P. B. 832, 4933
Schulz, J. T. 6260
Schumacher, H. A. Eggers-2195, 3301
Schumacher, H. A. Eggers-2195, 3301
Schumacher, R. 2185
Schuphan, W. 3176
Schuster, D. J. 473, 1440, 2002, 4613
Schuster, M. F. 2513, 2520, 2521 1872 Schuster, M. F. 2513, 2520, Schuster, M. F. 2513, 2520, 2521
Schütte, F. 3515
Schwähn, P. 2866
Schwalbe, C. P. 1589
Schwartz, A. 982, 1318, 3633, 3646, 5620, 6094
Schweissing, F. C. 4503
Schweissing, F. C. 4503
Schwenke, W. 2077
Schwerdtfeger, F. 2262
Sciaky, R. 3859
Scoles, L. E. 6204
Scopes, N. 2621, 2622
Scott, A. W., Jr. 2525
Scott, D. W. 512
Scott, H. A. 608
Scott, P. R. 2102
Scott, R. R. 1444, 1963
Scott, W. P. 1046, 2528
Scott, G. 1609
Scott, P. D. 4137
Scriber, J. M. 88, 2923, 6163, 6239, 6258
Scriven, G. T. 538
Seabrook, W. D. 1228, 1266, 2202, 2702, 3598, 3753, 6601
SEAMEO Regional Center for 2521 6601 SEAMEO Regional Center for Tropical Biology, Indonesia 2155
Sears, M. K. 2584, 5046
Sears, M. W. 5760
Seay, R. S. 2985
Sebae, A. H. El- 226, 486, 490, 680, 2634, 3215, 3821, 4394, 5723, 5986, 6705, 6717 6717 6/17 Sechriest, R. E. 1923, 6168 Seckin, E. 6493 Sedivý, J. 3346, 5669 Sedlak, B. J. 1231, 4260 Sedykh, K. F. 2752 Seemüller, E. 1443 Seenappa, M. 4655

Segebade, R. 2746 Seguy, E. 10 Séguy, E. 6265 Sehgal, S. S. 2724 Sehnal, F. 754, 2647, 3268, 4088 Seib, P. A. 2191
Seiber, J. N. 2902, 3904, 3907
Seifert, R. M. 6453
Seitz, L. M. 2785
Sekhon, S. S. 5497
Sekijima, Y. 5245, 6681
Sekita, N. 1457, 2964
Sekulić, R. 2869
Selander, R. B. 6028
Selander, R. K. 6030
Selhime, A. G. 6484
Selim, A. A. 3045, 4397
Selim, H. A. 4351
Sell, D. K. 4534
Sellers, L. G. 1394
Selman, B. J. 4730
Selveira Neto, S. 3966
Semaille, R. 203
Semal, J. 3824
Semtner, P. J. 4609, 4934
Sen, P. 2576
Sen, S. C. 3391
Sen Sarma, P. K. 2572
Sen-Sarma, P. K. 2572
Sen-Sarma, P. K. 2843, 6330
Senadhera, D. 2395
Senapati, B. 413
Senboku, T. 884
Sender, C. 2775
Sengalevich, G. 942
Senst, K. M. 6436
Seo, S. T. 1615, 3142
Sepasgosarian, H. 1964
Seperteladze, M. P. 3782
Serda, J. G. 2036
Serez, M. 1604
Serini Bolchi, G. 3112, 5534
Seshu, D. V. 3899, 3913
Šestović, M. 6713
Sethi, G. R. 2035, 2509, 5043, 5098, 5221, 5445
Sethi, M. 5560
Sethunathan, N. 2147
Setokuchi, O. 1535
Setty, B. N. Y. 3276
Seung Yoon Choi 2389
Sevacherian, V. 3550
Sevastopulo, D. G. 4838, 4839, 4840, 4841, 4842, 48424 4843 Sevenster-van der Lelie, L. A. Sevenster-van der Leile, L. A.
6320
Sevryukova, M. V. 3464
Seymour, P. R. 5447
Shaaban, A. M. 4390
Shaaban, Z. M. 4386
Shaarawy, M. F. El- 1898
Shaaya, E. 663, 4169
Shafee, S. A. 1189
Shafei, S. M. El- 4326
Shah, A. H. 1538, 1613, 3879, 5515, 5550
Shah, M. P. 6372
Shah, P. 4708
Shaheen, A. H. 1013, 2500
Shahi, H. N. 3933, 6422
Shahi, H. N. 3933, 6422
Shahi, K. P. 1823, 4279
Shahjahan, M. 4012, 4029, 5268 6320 Snani, K. P. 1823, 4279
Shahjahan, M. 4012, 4029, 5268
Shalaby, F. F. 4371, 5482
Shalaby, F. M. 4475
Shalit, H. 353
Shamsuddin, M. 4453
Shamy, R. 1639
Shanahan, G. J. 1110, 1701
Shang, C. C. 180
Shani, A. 1742
Shantaram, K. 361
Shapar, T. J. 6180
Shapiro, A. M. 2676, 4955
Shapiro, A. M. 2676, 4955
Shapiro, M. 4886, 4935
Sharaf, N. S. 5642, 5703
Sharif, I. M. F. 6717
Sharipov, M. 1182
Sharma, A. 3671, 5818

Sharma, A. K. 504, 3542 Sharma, D. D. 408 Sharma, G. 4268, 4289 Sharma, J. C. 6653 Sharma, K. K. 1090, 3247 Sharma, K. P. 2003 Sharma, M. L. 4818, 4820 Sharma, P. L. 2280 Sharma, P. P. 6711 Sharma, R. K. Sharma, R. N. 3878 Sharma, S. 773 Sharma, S. C. 6695 Sharma, S. K. 5833, Sharma, S. M. 51006 5833, 6477 Sharma, S. P. 1004, 4268, 4289
Sharma, V. K. 589
Sharma, V. N. 4747
Sharov, A. A. 5796
Sharp, A. K. 1116, 2096,
4661, 5225
Sharp, J. L. 805, 2252, 2623,
6036 4289 6036
Sharpe, E. S. 3682, 3684, 3685, 5855, 5858
Shastry, S. V. S. 3913
Shaw, G. G. 5777
Shaw, J. G. 402
Shaw, J. T. 307
Shaw, K. C. 2795, 3736
Shaw, M. J. P. 3049
Shaw, M. R. 4100, 4622, 4623
Shazli, A. 5641
Shea, P. J. 5215
Shearawy, M. F. El- 1899, 1900 Shea, P. J. 5215
Shearawy, M. F. El-1899, 1900
Sheasby, J. L. 5002
Sheehan, K. 1796
Sheehan, K. B. 5320
Sheets, T. J. 1141
Sheffer, S. M. 5162
Sheikh, K. H. 5000
Shelburne, V. B. 5740
Shelburne, V. B. 5740
Shelburne, V. B. 5740
Shelby, C. E. 671, 3223
Shelley, R. M. 4731
Shelly, T. E. 156
Shelton, A. M. 1021, 3534
Shelton, R. R. 373
Shepard, M. 2480
Shepherd, R. F. 3575
Shepherd, R. F. 3575
Shepherd, R. F. 358
Sheppard, C. 515
Sheppard, C. 515
Sheppard, R. F. 789
Sherald, A. F. 5334
Sherif, S. El- 468
Sherlock, P. L. 4317
Sherniyazova, R. M. 1600
Sherrod, D. W. 307, 4026
Sherwood, R. T. 924
Shew, H. D. 2019
Shiao, S. N. 2046
Shibuya, N. 1220
Shieh, J. N. 1821, 1822
Shields, K. S. 1072
Shiga, M. 1296, 5596
Shih, C. I. 838
Shih, C. I. 71
Shih, C. I. 71
Shima, H. 1827, 2667, 4194, 5372
Shima, S. Noriko 186
Shimada H. 1501 Shiras H. 1827, 2667, 4194, 5372
Shima, S. Noriko 186
Shimada, H. 1501
Shimada, H. 1501
Shimada, S. 4756, 4768
Shimazu, M. 1409, 5843, 6382
Shindrova, P. 6558
Shing, L. C. 620
Shing, S. Z. 619
Shinkaji, N. 6472
Shinonaga, S. 4305
Shiozawa, Y. 1602
Shipp, E. 1110, 1701
Shirasaki, S. 6458
Shirinyan, Zh. A. 3746
Shirk, P. D. 6083
Shishibori, T. 2210
Shoemaker, C. A. 406, 1955

Sholberg, P. L. 3127 Shore, D. G. 579 Shorey 2775 Shorey, H. H. 810, 811, 2202, 6132 Short, D. E. 1423, 2412 Short, M. 5067 Shoukry, A. 722, 1247, 4344, 4345 A345
Showers, W. B. 876, 1923
Shrivastava, M. 5319
Shrivastava, P. S. 6401
Shrivastava, P. S. 6401
Shrivastava, S. K. 3919, 3947, 3955, 3957, 5565
Shubert, P. 1702
Shujauddin 2765
Shukla, B. C. 3919, 3947, 3955, 3957
Shukla, G. S. 409, 4707, 5355
Shukla, J. P. N. 2756
Shukla, J. P. N. 2756
Shukla, K. K. 3920
Shukla, R. P. 3670
Shumakov, E. M. 5962
Shurenkov, B. G. 1386
Shurovenkov, Yu. B. 6693
Shvets, D. A. 6361
Shyamasundari, K. 2211
Sicci, S. O. 6426 Shyamasundari, K. 2211 Sicci, S. O. 6426 Sicher, W. 6734, 6735 Siddadappaji, C. 2010 Siddall, J. B. 1746 Siddaramaiah, A. L. 1360 Siddaramappa, R. 3917 Siddiqui, E. M. 1775, 5302 Siddiqui, K. H. 2894, 2895 Sidhu, A. S. 2039, 2538, 3037, 4068, 5127, 6560, 6561, 6563 6563 6563 Sidhu, D. S. 727, 4266, 4267 Sidhu, G. S. 3921 Sidhu, H. S. 4117, 4240, 5819 Sidia, A. O. M. 5899 Sidor, C. 3156 Sidor, C. 5863 Sifuentes A., J. A. 881, 923, 995, 1010, 1015, 1050 Sigwalt, B. 6020 Sikora, R. A. 3822 Sikorowski, P. P. 1131 Silberglied, R. E. 3765 Silfverburg, H. 3786 Silk, P. J. 2204 Sill, W. H., Jr. 622 Sillans, D. 5254 Siltanen, H. 1491 Silva Contreras, J. de J. 2299, 2304 2305 Silva Contreras, J. de J. 2299, 2304, 2305
Silva, I. Rocha e 1186
Silva, M. Ferreira da 184
Silva Martins, J. F. da 4519, 5037, 5566
Silva, P. I. da, Jr. 185
Silveira Pinheiro, B. da 5037
Silverstein, R. M. 1727, 3064, 4097 4097 4097 Simchuk, P. A. 5242 Simić, S. 5030 Simkin, J. 3660 Simko, K. 5613 Simmons, G. A. 537, 5748 Simmons, L. A. 2723, 3551, 3757
Simmons, P. 6070, 6072
Simonet, D. E. 1429, 1953, 2413, 2925, 6537
Simonis, W. 5984
Simpson, B. J. 1064
Simpson, R. G. 1428, 6243
Sinacori, A. 5637
Sinchuk, I. V. 3098
Sinclair, S. A. 4091
Sinclair, W. A. 3087
Sindhusake, C. 6394
Sinëv, S. Yu. 5286
Singal, S. K. 4201, 5306, 5405
Singh, B. 2459, 3559, 5131, 6571
Singh, B. K. 4202 3757 Singh, B. K. 4202 Singh, B. N. 898, 2551, 3932, 3943, 3945, 6402 Singh, B. U. 2404

Singh, C. 2318 Singh, C. B. 856 Singh, D. 1933, 2637 Singh, D. S. 1712, 3222 Singh, G. 1925 Singh, G. J. P. 998 Singh, H. 2449, 2459, 3703 Singh, I. P. 3377, 5020 Singh, J. 1802, 2318, 2900, 3377 3377 3377
Singh, J. P. 717, 3263, 5465
Singh, K. M. 2035, 2475, 2488, 2509, 3012
Singh, K. N. 5816
Singh, K. P. 2547
Singh, M. B. D. 6577, 6579, 6580, 6581
Singh, N. P. 2475, 3012
Singh, O. P. 1802, 1997, 2487, 3221, 5106, 5561, 5684, 6409 3221, 5106, 5561, 5684, 66409
Singh, P. 1090, 2149, 4319
Singh, P. K. 278
Singh, R. 2236, 2281, 2357, 2496, 5469
Singh, R. N. 2475, 2488, 3012
Singh, R. P. 3834
Singh, S. 2451, 2475, 3012, 5809 S809
Singh, S. A. 3962
Singh, S. B. 1324
Singh, S. N. 2475
Singh, S. P. 401, 1802, 1936, 2406, 5634, 5635
Singh, S. R. 4585, 6514
Singh, T. 3680
Singh, V. P. 1364
Singh, Z. 1481
Singhvi, P. M. 1929
Sinha, D. C. 2497
Sinha, M. M. 2900
Sinha, M. P. 5042
Sinha, P. K. 2365, 2496
Sinha, P. K. 2365, 2496
Sinha, R. N. 3127, 3135, 4120
4668 4668 4668
Sinha, R. P. 2506, 2551
Sinha, S. P. 4595
Sinha, T. B. 2839, 5100, 5108
Sinohara, H. 767, 6335
Sircar, P. 1712
Sitaramaiah, S. 6574
Sivapalan, P. 1225, 2192
Sivaplan, P. 4611
Sivasubramanian, P. 1228, 3753 3753 3753 Sivinski, J. 6102 Sizova, T. P. 1357 Skaf, R. 5899 Skatulla, U. 546 Skibińska, E. 131 Skirkevičius, A. 5398 Skirkyavichyus, A. 53 Skolnik, M. I. 1277 Skorpik, M. 1498 Škrobák, J. 38 Skrocki, C. 5095 Skrzypczyńska, M. 25 5398 Skrocki, C. 5095 Skrzypczyńska, M. 2593, 35; Skufin, K. V. 2870 Skuhravá, M. 2871 Skuhravá, V. 2871, 4108 Slabospitskii, A. G. 5839 Sláma, K. 2151, 2685, 4256 Slansky, F., Jr. 4148, 4229, 4230 2593, 3595 Slansky, F., Jr. 4146, 4229, 4230
Slater, J. A. 2348, 6008
Slay, M. W. 5872
Slaytor, M. 3260, 4754
Slessor, K. N. 4097, 5213
Slifer, E. H. 1193
Sliżyński, K. 2776
Slobodchikoff, C. N. 5750
Sloderbeck, P. E. 5673
Slonina, C. 1812
Slosser, J. E. 4051
Sluss, T. P. 1214
Smaill, R. J. 1382
Smalley, D. L. 3546
Smallfield, B. M. 5881
Smallwood, J. 552
Smaragdova, V. V. 2977
Smardzewska, Z. 3776
Smerage, G. H. 6135
Smilanick, J. M. 3999, 4239

uthor Index niley, R. L. 2987, 2989 nilowitz, Z. 2024, 3537, 3538, 4916, 4936, 4943, nirnoff, W. A. 604, 1621, 5205, 6609 nirnov, A. M. 252, 2612, 6297 6297
airnova, G. V. 1673
nith, A. 3789
nith, A. G. 6113
nith, A. Russell- 5270
nith, B. N. 5875
nith, C. L. 2268
nith, C. M. 2011
nith, D. 2921, 5938
nith, D. B. 6518
nith, D. H., Jr. 865, 6157, 6158 nith, D. R. 1178, 3309, 3310, 6123 3310, 6123
nith, D. W. 579
nith, E. H. 181
nith, E. S. C. 3563
nith F., G. E. 4087
nith, G. E. 4682
nith, G. L. 2963
nith, I. M. 527
nith, J. C. 6517
nith, J. H. 4937
nith, J. W. 264, 293, 1046, 2528 nith, J. W. 264, 293, 1046, 2528 nith, J. W., Jr. 288, 1017, 1914, 3529 nith, K. B. 3994 nith, K. G. V. 6003 nith, K. M. 3148, 3159, 3160, 4689, 5244 nith, L. 1094 nith, R. F. 5539 nith, R. L. 6102 nith, R. M. 3984 nith, R. S., Jr. 4643 nith, S. L. 6079 nith, V. K. 5979 nith, V. K. 5979 nith, V. K. 5979 nith, V. E. 2922 nithers, C. N. 829 mitle, B. J. 5823 molarz, S. 6467 molin, S. J. 2811, 4890 mol'yannikov, V. V. 1449, 2791, 2946, 5064 mrž, J. 33 neep, J. 1134 nelson, J. T. 3634 niatałowa, Z. Zwolińska-5114 nider. M. T. 4927, 4928, 1015, 1016 nith, V. T. 4927, 4928, 1016 nith, K. J. 4927, 4928, 1016 nith, L. 4927, 4928, 1016 ni 2528 5114 nider, M. T. 4927, 4928, 4929 4929
nodgrass, G. L. 2037
nodgrass, R. E. 6289
nowball, G. J. 5940
nyder, D. E. 85
obakar', T. A. 174
obecki, E. R. 540
obótka, W. 1715
ocha, R. 2151
ociedade Brasileira para o
Progresso da Ciência 1
oderstrom, E. L. 6453 oderstrom, E. L. 6453 oderstrom, E. L. 6453 oenardi 321 oenarjo, E. 1460 oenen, A. 3806 oesanto 616 ogawa, K. 2387, 3412, 3413, 3911, 4514, 4516, 6385, 6389
Sohi, A. S. 398, 1558, 2419, 2420, 2451
Sohi, S. S. 617
Soika, G. 4737
Sokal, R. R. 5160
Sokołowski, R. 3300
Sokołowski, R. J. 2231, 3287
Solayappan, A. R. 6346
Solbreck, C. 4619, 4824, 4826
Soler, J. 3444
Soliman, N. Z. 5971
Soliman, S. A. 226, 6717
Soliman, S. A. 226, 6717
Soliman, S. S. 3798
Soliman, Z. R. 393, 403
Solinas, M. 985 6389

Solomon Islands, Ministry of Agriculture and Lands 4179
Solomon, J. D. 1569, 6202
Soloway, S. B. 660
Somaatmadja, S. 452
Somadder, K. 290, 5319, 5686
Somerfield, K. G. 6638
Song, Y. H. 909
Soni, S. K. 687
Sonnet, P. E. 3718, 4764, 5421
Sonobe, H. 729, 4778
Soon, Lim Guan 322
Soper, R. S. 606, 5218
Sorai, S. de J. 1853
Sorensen, A. A. 3735, 6291
Sørensen, H. 1367
Sorensen, H. 1367
Sorensen, H. 1367
Sorensen, H. 1367
Sorensen, H. 630 Sorenson, D. D. 630 Soria, S. de J. 1854, 3052, 4080, 6011 Sork, V. L. 5594 Sorokina, Z. A. 5 5545 Sorokina, Z. A. 5545 Sosa, O., Jr. 300, 6156 Sosromarsono, S. 5226 Sottihibandhu, S. 2742 Sottile, L. 5307, 5457 Soultanopoulos, C. 3814 Sousa, J. Gómez 3953, 4445 Sousa, J. Gómez 3953, 4445
South Africa, Department of
Agricultural Technical
Services 695
South Africa, Wattle Research
Institute 2597
South Pacific Commission Souza Lopez, H. de 4726 Sower, L. L. 536, 1070, 2205, 4106, 6593, 6594 Soydanbay, M. Tunçyürek-Soydanbay, M. Tunçyürek6482
Spangler, H. G. 1342
Sparks, A. N. 64, 92, 2898,
3886, 5328, 5329
Sparks, T. C. 1152, 1216,
2194, 3228
Speechly, H. 5166
Speirs, R. D. 5345
Spence, G. E. 5967
Spence, K. D. 6676
Spillner, C. J. 3226
Spilzizen, J. 611
Spratt, E. C. 3672, 3673, 6706
Sprenkel, R. K. 460, 2481
Springhetti, A. 721, 3869
Squires, V. R. 1910
Sran, C. S. 1478
Sraver, B. E. 3857
Sreedharan, K. 6578, 6579
Sridhara, S. 1789
Sriharan, S. 5098
Srihari, T. 4751
Srinivasan, A. 4762
Srinivasan, K. 3001
Srinivasan, T. B. 5548
Srinivasan, T. E. 5547
Srivastava, A. S. 2281 6482 Srivastava, A. S. Srivastava, B. G. 2281 2207 Srivastava, B. P. Srivastava, D. N. 2145 320 Srivastava, B. P. 2145
Srivastava, D. N. 320
Srivastava, G. K. 4471
Srivastava, J. L. 2550, 6654
Srivastava, K. P. 1936, 2916
4744, 5041
Srivastava, P. K. 5816
Srivastava, R. P. 2614, 2903, 2904, 2905, 2907
Srivastava, S. C. 3708
Srivastava, S. K. 2357
Srivastava, S. N. 3215
Srivastava, S. N. 3215
Srivastava, V. S. 1712
Stacey, L. 3026
Stacherska, B. 2875
Staddon, B. W. 2190, 2224
Stadelbacher, E. A. 4606
Städler, E. 6059
Stadnitskii, G. V. 3059
Stage, A. R. 5786
Staicu, N. 5692
Staiger, L. E. 1152
Stairs, G. R. 2611 1936, 2916, 5816 2614, 2903,

Stamenković, S. 2874, 5068 Stamper, J. H. 2970, 5269 Stancheva, Ĭ. 2962 Stănculescu, M. 5582 Stanientescu, M. 5382 Staniente, A. 5394 Stanenite, A. P. 3466 Stange, L. A. 4555 Stanie, V. 4257 Stanic, V. 4257 Stanionytė, A. 5394 Stanley, J. B. 2632 Stanley, J. M. 2701, 3678 Stanley, S. M. 5967 Staples, R. 6153 Stapley, J. H. 2394, 3698, 4179 4179
Stark, R. W. 5444, 5783
Stark, U. 6709
Stark, W. S. 2213
Starkov, I. A. 2613
Starks, K. J. 3372, 3417
Starostin, S. P. 1673
Starý, F. 5016
Starý, P. 562, 713, 1177, 1765, 2342
Stary, P. 4970 Stary, P. 562, 713, 1177, 1765, 2342
Stary, P. 4979
Starzyk, J. R. 4615
State College of Agriculture and Life Sciences, Cornell University 5281
Staten, R. T. 1745
Stavenga, D. G. 2213
Stavraki, H. G. 3367, 5520
Stay, B. 3231
Steck, U. 1926
Steck, W. 5993
Steck, W. F. 632, 686, 1135, 2206, 2279, 3236, 4716
Steen, B. van 1483
Steen, F. van de 216
Steenberg, K. 3401
Steeneyk, R. 4. van 3550
Steenwyk, B. van 1483
Steenwyk, R. van 1273
Steeves, T. A. 937
Stefaniak, Z. Machowicz- 3158
Stegeman, R. Brieze- 1956, 5416
Stehlik, J. L. 4648 5416
Stehlík, J. L. 4648
Steidl, R. P. 865
Stein 1927
Stein, E. R. 5090
Stein, J. D. 3085
Steinberg, B. 4005
Stell, G. 2622
Stella, E. 3122
Stenbagen, G. 4144 Stella, E. 3122 Stenhagen, G. 4144 Stenseth, C. 2744 Stephen, F. M. 3607 Stephens, G. R. 4938 Sterling, W. L. 2515, 2541, 3294, 4601, 4602, 4603, 4605 Stermitz, F. R. 4173 Stern, V. M. 480, 1038, 5364 Stevens, R. E. 575, 576, 5207 Stewart, D. A. 2589 Stewart, J. A. 171 4605 5826, 6641 Stewart, J. L. 5780 Stewart, K. M. 1422 Stewart, R. K. 960, 4147, 6303 Steyvoort, L. van 464, 1524, 6533 6533 Stibick, J. N. L. 1053 Stiefel, W. 5879 Stilling, P. D. 4484 Still, G. G. 3545 Still, G. W. 943 Stimmel, J. F. 2068 Stinner, R. E. 167, 497, 1012, 1272, 2263, 2481, 4589 1272, 2263, 2481, 4589 Stjernberg, T. 2264 Stoakley, J. T. 3069 Stobbs, L. W. 4655 Stock, M. W. 560, 2641, 4617 Stockbridge House Experimental Horticulture Station, United Kingdom 4578 Stoeva, R. 3990

Stoinescu, I. 948 Stolarz, G. 3280 Stolbov, N. M. 6298 Stoltz, D. B. 1125, 2341, 3691, 5244 Stoltz, R. L. 480 Stoltz, R. L. 480 Stolyarov, M. V. 230 Stone, D. M. 6624 Stone, J. D. 260 Stone, J. V. 5314 Stone, M. W. 4015, 4314, 4416 Stone, M. W. 4015, 4314, 4416

Stoner, A. 1877, 3718

Stoner, A. K. 6551

Stoner, W. N. 2358

Stored Products Research
Institute, Nigeria 6644

Story, J. 4479

Story, R. N. 4488

Stout, S. J. 2146

Stoyanova, S. 3134

Straka, F. 419, 4022

Straneo, S. L. 14

Stratakis, E. 2689, 3738

Stravrakis, G. N. 3507

Strebler, G. 43, 2136, 4232

Street, M. W. 3643

Streu, H. T. 4917, 5047

Strickland, G. R. 4072

Strickland, G. R. 4072

Stride, T. 2223

Stritzky, W. von 3810

Strojnowski, R. 2952

Strojny, W. 3104

Stroyan, H. L. G. 5762

Struble, D. L. 686, 6059

Struble, D. L. 686, 6059

Strunnikov, V. A. 265, 3284

Stubbs, M. 6318

Stump, I. G. 2226

Stus', A. A. 5840

Styczyńska, B. 1715, 4711

Su, C. Y. 445

Su, P. P. 5978

Su, T. H. 5264

Su, W. Y. 2004

Subba, J. R. 5071

Subba, B. R. 702, 2370, 4447

Sun P. P. 5076 Subba Rao, B. R. 702, 2370, 4447 Subba Rao, P. V. 890, 5035 Subrahmanyam, B. 6684 Subramaniam, T. R. 3038, 3190 Subramanian, D. 2116
Such, A. 5136
Suchwant Singh 5228
Sud, V. K. 1534
Sudarisman, S. 1932
Sudd, J. H. 119
Sudhakar Rao, A. 6528
Sudhakar, T. R. 1675
Sudo, S. 4520, 5828, 5829
Sue, Kwong 4324
Suett, D. L. 421, 5097
Suga, T. 2210
Sugar Industry Research
Institute, Mauritius 5513
Sugarman, B. B. 4309
Sugawara, F. 4767 Subramanian, D. 2116 Sugarman, B. B. 4309 Sugawara, F. 4767 Sugawara, R. 1223 Sugie, H. 739 Sugimoto, A. 82 Sugimoto, T. 4994 Sugonyaev, E. C. 3046 Sugonyaev, E. S. 12, 2172 Sukhani, T. R. 1936, 2916, 5041 5041
Sukhdev Singh 6308
Sukkestad, D. R. 5331
Suleman, M. 4872, 4873
Sulladamath, V. V. 1464
Sulladmath, V. V. 1435
Sullivan, D. J. 2824, 5478
Sullivan, M. J. 3526
Sultana, P. 5227
Sumlin, W. D., III 2669
Summers, M. D. 4682
Summers, T. E. 293
Summy, K. R. 920, 2917
Sun, C. N. 908, 3906, 5568, 6392
Sun, M. H. 1998 5041 Sun, M. H. 1998

Sundara Babu, P. C. 991
Sundaram, K. M. S. 3193
Sundaramurthy, V. T. 684, 1434, 2934, 4542
Sundell, B. 5954
Sunderland, K. D. 5025
Sunose, T. 2767, 4794
Suomalainen, E. 159, 5411
Supharngkasen, P. 5128
Suplicy Filho, N. 6716
Supriana, N. 4098
Surana, K. C. 2547
Suratmo, F. G. 5226
Suri, S. M. 6403
Surles, W. W. 4939
Suryawanshi, D. S. 2503
Susidko, P. I. 2360
Suski, Z. 6467
Suski, Z. W. 2277, 2775, 3287, 3300, 6465
Süss, J. 2582
Süss, L. 3116, 3118, 5799
Sussenbach, J. S. 4683
Sustek, J. 1139
Sutat, V. 5582
Sutarman, T. 452
Suthat Julsrigival 439
Sutter, G. R. 6217
Sutton, R. M. 59, 3720
Sutton, W. J. 6624
Sutugina, L. P. 4679
Suwa, Y. 4849
Suwanabutr, S. 3414
Suzuki, A. 664, 1219
Suzuki, H. 292
Suzuki, H. 292
Suzuki, T. 1223
Suzuki, T. 1970
Svampa, G. 1022
Svec, H. J. 4019
Svestka, M. 6628
Sveum, P. 4427
Svoboda, J. A. 3749
Swailem, S. M. 516
Swailen, G. H. 2158
Suzulti A. Gree 686
Swailen, G. H. 2159
Suzukir, P. L. 2958
Swaziland, Agricultural
Research Division 2159, Sweeney, J. M. 5740 Sweet, M. 3766 Sweet, M. H. 2243 Swendsen, M. Münster- 3597, 5148
Swier, S. R. 2691
Swift, M. J. 5270
Swigar, A. A. 4097
Swincer, D. E. 5951
Swirski, E. 2761
Switzerland, Eidgenössischen
Forschunsanstalt für
Milchwirtschaft LiebefeldBern 4709
Sychev, M. M. 231
Syed, A. 4960
Syed, R. A. 1437
Sylvester, E. S. 2028, 5109,
5437 5148 5437 Symmons, P. 3327, 6274, 6277, 6281 Symmons, P. M. 6286 Syrel'shchikova, L. P. 5587 Szabó, S. 2258 Szabolcs, J. 2881 Szatmari-Goodman, G. 312, 1923 Szczepanik, Z. 6466 Szelegiewicz, H. 801, 3307, 4859 Szelényi, G. 1431 Szentesi, A. 4832, 4833 Sziráki, G. 3467 Szmidt, A. 1865 Sztabert, B. Grzelakowska-4168 Szujecki, A. 132, 575; Szykuła, J. 5989 Szyszko, J. 132, 3605 'T Hart, J. 200 132, 5758

Taccani, F. 3117, 3121
Tachibana, K. 6586
Tadić, M. 1159, 5964
Tadkowski, T. M. 4748
Taft, H. M. 481, 2516
Tagestad, A. D. 565, 3085
Tagini-Rosset, S. 1983
Taha, H. A. 3607
Tait, J. 6697
Takada, H. 427, 1426, 2720, 3347, 3348, 4733
Takafuji, A. 4458
Takagi, K. 3056
Takagi, K. 3056
Takagi, S. 4085
Takahashi, F. 2728, 3665
Takahashi, F. 2728, 3665
Takahashi, H. 1827
Takahashi, K. 3842 Takahashi, H. 1827
Takahashi, H. 1827
Takahashi, H. 1827
Takahashi, N. 3721, 5158
Takahashi, S. 1224
Takahashi, S. 1224
Takahashi, Y. 1153, 6379
Takara, J. 4323
Takeda, M. 72
Takeda, S. 3471, 5599
Takematsu, A. P. 6716
Takenouchi, Y. 4271
Takita, Y. 333
Takizawa, H. 4195
Takizawa, T. 1229
Takizawa, T. 1229
Takizawa, Y. 5243
Takadal, G. 5605
Talalaev, E. V. 3157
Talanov, R. A. 1708
Talati, G. M. 2507, 2822, 5593, 6529 Talati, G. M. 2507, 2822, 5593, 6529
Talbot, M. 240
Talbot, M. N. 218
Talekar, N. S. 2141
Talerico, R. L. 3088
Taley, Y. M. 921, 1416, 5572
Talhouk, A. S. 1958
Tallamy, D. W. 4528
Tam Mun Kwong 4129
Tamaki, G. 396, 2490, 4590
Tamaki, S. 2860, 2861
Tamaki, Y. 739, 1222, 1730, 3721, 6458
Tamayo, J. A. 3042 3721, 6458
Tamayo, J. A. 3042
Tamazawa, S. 4776
Tamblyn, N. E. 3070, 3613
Tamhankar, A. J. 361
Tams, W. H. T. 706
Tamura, S. 664
Tan, C. L. 3970
Tan, S. H. 2204
Tanada, Y. 4684, 5854
Tanaka, A. 1501 Tanaka, K. 424, 276, Tanaka, M. 1353 Tanaka, M. 1411, 3747 4819 Tanaka, A. 1501 424, 2769, 5661 Tanaka, N. 1411, 3747
Tandon, G. N. 4819
Taneja, S. 5976
Taneja, S. K. 5976
Taneja, S. L. 6564
Taneja, V. K. 3763
Tang, M. Y. 915
Tanner, V. M. 793
Tannock, J. 1267, 1749
Tantawy, G. A. 5983, 6721
Tantawy, M. A. El- 4366, 4380, 4387, 4391, 4393, 4396 4380, 4387, 4391, 4393, 4396
Tappan, W. B. 4039
Tarafder, P. 3405, 3925
Tarailo, R. 1522
Taran, N. Z. 6693
Tarancón, J. 2967, 3494
Tardiff, M. F. 540
Tardivo, J. C. 1544, 1545, 1546, 3016
Tarlok Singh 2665, 3680, 4267
Tarumingkeng, R. 4098
Tarumingkeng, R. C. 5226
Tashiro, H. 3504
Tassan, R. L. 250
Tatang, S. 3934
Tatsuki, S. 894, 5158
Tauber, C. A. 74
Tauber, M. J. 74, 3290
Tawata, S. 653
Tawfik, M. F. S. 5357
Tayde, D. S. 5039
Taylor, D. E. 371 4396

Taylor, D. P. 751 Taylor, D. P. 751
Taylor, F. 1297
Taylor, K. L. 3070, 3613
Taylor, L. R. 1912, 2740, 6737
Taylor, O. R., Jr. 5330
Taylor, R. A. J. 236, 1912
Taylor, R. W. 6021
Taylor, R. W. D. 4664
Taylor, T. A. 1016, 1680 Taylor, R. W. D. 4664
Taylor, T. A. 1016, 1680, 3008, 3626
Taylor, T. R. 2411
Tazima, Y. 2845
Teakle, R. E. 5942, 6670
Teal, P. E. A. 6009
Teerink, B. J. 6322
Teetes, G. L. 1415, 3735
Teetor-Barsch, G. E. 1631
Teh, P. B. 1504, 5049
Teich, I. 1742
Teillon, H. B. 4105
Teixeira, R. M. de C. 6510
Tejada, L. O. 3356
Telenga, N. A. 2620
Temerak, S. A. 2354, 4349, 4356, 5860
Tempelaar, M. J. 6092 Temerak, S. A. 2354, 4349, 4356, 5860
Tempelaar, M. J. 6092
Templeton, A. R. 4799
Tenow, O. 5756
Teotia, T. P. S. 2138, 2473
Ter-Minasyan, M. E. 152
Ter Schegget, J. 4683
Terada, K. 1129
Teramoto, A. 188
Terán, F. O. 1383
Teran, F. O. 5516
Terauds, A. 1120, 5416
Tereshkova, E. V. 1978
Terranova, A. C. 494
Terriere, L. C. 4785
Teruya, R. 2860, 2861, 2862
Teruya, T. 2725
Tetangco, L. 3398
Tetsuo, S. 732
Tette, J. P. 389
Tewari, G. C. 1675, 2353, 4498
Tewari, G. D. 1368 4498
Tewari, G. D. 1368
Tewari, R. K. 5684
Tewarson, N. C. 4687
Thaare, K. R. 1416
Thacker, J. D. 5115
Thai Tsiung, Ng 436
Thakare, K. R. 921
Thakre, S. M. 6554
Thakur, A. K. 6403
Thakur, B. S. 453, 24 4687 Thakur, B. S. 453, 2484 Thakur, J. R. 5600 Thakur, M. L. 2843 Thakur, R. K. 846, 1896 Thakur, S. S. 3233, 3234 Thal, J. 1605 Thal, J. 1605
Thangavelu, K. 3034, 3558
Theophilidis, G. 4423
Thériault, L. M. 4818, 4820
Theroux, L. J. 2567
Theunissen, J. 5656
Thibout, E. 1265, 2499, 4254
Thieleke, G. 3178
Thiele, S. 4749
Thielemann, R. 6534
Thimmai 5679 Thind, B. B. 5220 Thippeswamy, C. 5679 Thirawat, C. 325 Thirion, C. 123 Thirion, C. 123
Thirumurthi, S. 213
Tho, Y. P. 3615
Thobbi, V. V. 1031, 2404
Thom, P. P. 1663
Thomas, A. 2706, 3737
Thomas, A. C. 6652
Thomas, A. G. 6339
Thomas, A. W. 6622
Thomas, B. 2381
Thomas, D. L. 1961
Thomas, G. D. 459
Thomas, G. M. 4139
Thomas, G. M. 4139
Thomas, H. A. 1590, 5191
Thomas, J. O. M. 5822
Thomas, M. J. 3923, 3939, 6383 6383 Thombre, U. T. 1365

Thompson, A. C. 740, 1131 Thompson, A. R. Thompson, C. A. Thompson, C. G. 5097 5529 512 Thompson, H. E. 1943, 5209 Thompson, J. L. Cloudsley-1837, 1959 Thompson, L. C. 1586, 5211 Thompson, N. P. 974
Thompson, S. N. 3255, 4808, 5483 5483
Thompson, T. E. 2034
Thompson, W. A. 574
Thomson, A. J. 2059
Thomson, N. A. 5871
Thomson, W. T. 3191
Thontadarya, T. S. 1417, 1427, 1493, 1547, 1548, 2508, 2815, 3416, 4056, 4059
Thompsill P. 6102 2508, 2815, 3416, 4056, 4059
Thornhill, R. 6102
Thorns, H. J. 547
Thorsteinson, A. J. 2466
Thouvenel, J. C. 3028
Threadgill, E. D. 3541
Thurston, R. 3562
Thyagarajan, A. 3898
Tiberi, R. 3079
Tichy, H. 3275
Tiedemann, A. R. 5217
Tiel, N. van 5252
Tieman, C. H. 660
Tiernan, C. F. 3977
Tietz, A. 4225
Tiitanen, K. 5953
Tiittanen, K. 5953
Tiittanen, K. 5953
Tiittanen, K. 1490, 1491, 6701
Tikar, D. T. 6554
Tikhomirov, A. M. 1188
Tilavov, T. T. 6507
Tilden, P. E. 2580
Tilton, E. W. 222, 3641
Timmins, P. R. 3792
Timms, N. J. 5882
Timokhina, A. F. 174
Tinaut Ranera, J. A. 3836
Tincknell, R. C. 3211
Ting, I. P. 2426, 3986
Tingey, W. M. 1528, 2493, 6163
Tingle, F. C. 4505
Tiongco, E. R. 883, 884, 885, Tingle, F. C. 4505 Tiongco, E. R. 883, 884, 885, 6384 6384
Tirmazi, S. S. 882
Titmarsh, I. 2018
Titmarsh, I. J. 5952
Tiwari, A. S. 440
Tiwari, N. K. 291, 2352
Tiwary, M. B. 5020
Tkach, M. T. 1554
Tobacco Research Board. Tobacco Research Board,
Zimbabwe 4077
Tobe, S. S. 1811, 3231
Todd, J. W. 3760, 4167, 5373,
6109
Toft, S. 6124
Toit, G. D. G. du 5867, 5874,
5877
Toit, W. J. du 1318
Tokuhisa, E. 5376
Tollefson, J. 6264
Tollefson, J. J. 1395, 6254
Tomar, S. S. 4151
Tomić, D. 5793
Tomioka, K. 4249
Tomita, K. 641
Tomiuk, J. 2195, 3301
Tomizawa, C. 2721
Tomkins, B. 1094
Tonet, G. L. 5107
Toohey, K. M. 4147 Tobacco Research Board, Tonet, G. L. 5107
Toohey, K. M. 4147
Toolan, S. C. 5855
Toolson, E. C. 4793
Topp, W. 6357, 6358
Torchio, P. F. 1952
Torgersen, T. R. 1070
Toro, J. C. 1023
Toro, M. A. 2604, 4817
Torossian, C. 4435
Toscano, N. 1486
Toscano, N. C. 2529, 5364
Tóth, G. 2258
Tóth, J. 4109

uthor Index oulan, M. 3816 oulan, M. 3816 ouw, J. H. van 1788, 4683 owle, E. 5789 ownsend, K. 6481 ownsend, R. J. 5867, 5868 ownshend, J. L. 962 oye, B. O. 690 rambusti, B. G. 3267 ranfaglia, A. 1107, 2332, 5800 5800 raut, W. 4273
ravers, R. S. 611
raylor, D. 2524
reat, A. E. 861
rebukh, L. D. 296
reherne, J. E. 2190
remblay, A. 3717
remblay, E. 713, 3492, 3565, 5253, 5308, 5633
remewan, W. G. 3789
renchev, G. 5120
rendafilova, Z. 942
rentini, M. 6125
revizoli, D. 4004
riggiani, O. 848
ripathi, A. K. 409, 4707
ripathi, G. M. 2353, 4498
ripathi, R. L. 3559
riplehorn, C. A. 2047
rittelvitz, W. 6357, 6358
riviño, L. 4964
ripatizin, V. A. 4189
rolle, L. 6470
ropp, J. M. 3344
rottier, R. 962, 1979, 4553
ruman, J. W. 1807, 3741
rumble, J. T. 275, 853, 1362
ryapitsyn, V. A. 2172
sai, J. H. 2892
salev, M. 394
seng, Y. H. 1770, 1995, 2662
seng, Y. J. 908
siropoulos, G. J. 3463
sitsipis, J. A. 206, 2456
siung, Ng Thai 436
sou, B. S. 2371
suji, H. 641, 1209
sumuki, H. 3384, 4771, 6050
svetkov, D. 3130
sybul'skaya, G. N. 2119
sygankov, A. M. 3184
ucci, A. 1477
ucker, G. G. 864
ucker, J. M. 3060
ulisalo, U. 4455
umlinson, J. H. 665, 1461, 1739, 4763, 6732
ummala, R. L. 386, 2115, 6136 6136 unçyürek-Soydanbay, M. 6482 Construction of the constr

Udeaan, A. S. 1612 Ueda, T. 1240 Uematsu, H. 1252, 1591 Uematsu, S. 6478 Ueno, J. 5018 Ugolino, A. 5617 Uhlenbruck, G. 6335 Uk, S. 1692 Umeya, K. 102 Underhill, E. W. 632, 686, 1135, 2206, 2279, 3236, 4716, 5993 Ungsunantwiwat, A. 771, 6186 United Kingdom, Agricultural Development and Advisory Service 1757, 1758, 4721 United Kingdom, Agricultural Research Council 2652 United Kingdom, Centre for Overseas Pest Research 3242 United Kingdom, Department of Agriculture for Northern Ireland 4184 United Kingdom, Edinburgh School of Agriculture 4175 United Kingdom, Forestry Commission 6602 United Kingdom, Glasshouse Crops Research Institute 2654 United Kingdom, Kirton Experimental Horticulture Station 1759 United Kingdom, Long Ashton Research Station 5069 United Kingdom Ministry of United Kingdom Ministry of Agriculture, Fisheries and Food 268, 302, 425 United Kingdom, National Vegetable Research Station 6501 United Kingdom, Processors and Growers Research Organisation 4176 United Kingdom, Rothamsted Experimental Station 6736, 6737 United Kingdom, Stockbridge House Experimental Horticulture Station 4578 United Nations Educational, Scientific and Cultural Organisation 1585
United Planters' Association of
Southern India 4084 Southern India 4084
United States Department of
Agriculture 814, 820, 879,
939, 970, 999, 1033, 1034,
1035, 1060, 1061, 1062,
1078, 1079, 1080, 1081,
1082, 1083, 1968, 2409,
2427, 2599, 4504, 4537,
4538, 5088, 5192, 5193,
5194, 5466, 6351, 6364,
6435, 6456, 6611, 6612,
6613 6613 United States Department of Agriculture, Forest Service 2064 Università degli Studi di Milano 5446
University of Agricultural
Sciences, Hebbal 4183
Unni, B. 744
Unnithan, G. C. 4960
Unruh, T. 259
Unwin, D. M. 1846
Upadhyay, V. R. 1613
Urago, T. 3700, 3722
Uribe, R. M. 3124
Urquhart, F. A. 2249
Urquhart, N. R. 2249
Urquijo Landaluze, P. 331 5446 Urquijo Landaluze, P. 3318 Urrello, R. 1150 Urs, K. C. D. 1371 Urueta Sandino, E. J. 6450 Ushatinskaya, R. S. 2217 Usher, M. B. 112, 845, 3420, 3422 Usherwood, P. N. R. Usinger, R. L. 4614

Usua, E. J. 6514 Uthamasamy, S. 414 Uusvaara, O. 4101, 4102 Uwo, J. Nishiitsutsuji- 3689, 5851 Vadivelu, S. 5832 Vago, C. 2938, 5138, 5495, Vago, C. 2938, 5138, 5495, 5836

Vagvolgyi, J. 6127

Vaidya, D. N. 6516

Vaidya, S. N. 6497

Vail, H. D. 5580

Vail, P. V. 1627, 5646

Vainshtein, B. A. 5019

Vaio, E. S. de 4424

Vaithilingam, C. 341, 5554

Vajranabhaiah, S. N. 1555

Valand, G. B. 6572

Valderrama, R. 1008

Valencia, S. L. 1148, 2902, 3395, 3397, 3410, 3901, 3926, 3942, 3970

Valentia, V. 5395

Valentine, H. T. 3086, 3088

Valero, J. R. 1621

Vallèe, G. 511

Vallèes, P. 3156

Valli, G. 5590

Vallier, R. 1983

Vallo, V. 549

Valverde, R. 1011

Van Achterberg, C. 3245

Van Alpen, J. J. M. 6502

Van Arendonk, R. C. M. 4992

Van Arendonk, S. 198

Van de Bund, C. F. 533

Van de Klashorst, G. 2493

Van de Merendonk, S. 198

Van den Berg, A. 489

Van den Berg, M. A. 5169

Van den Berg, M. A. 5169

Van der Horst, D. J. 3251

Van der Lelie, L. A. Sevenster-6320

Van der Maesen, L. J. G. 5836 6320 Van der Maesen, L. J. G. 5678 Van der Meijden, E. 5500, 6323 6323 Van der Poel, P. J. G. Verschoor- 195 Van Dijke, J. F. 4701 Van Doorn, J. M. 3251 Van Driesche, R. G. 355 Van Drongelen, W. 4775, 6038 6038 Van Duyn, J. W. 460, 1003, 1509, 1510, 2485, 4589 Van Dyck, L. P. 6363 Van Dyk, L. P. 981 Van Dyke, C. G. 1331 Van Emden, H. F. 5348, 6086, 6350 Van Frankenhuyzen, A. 966, 1026, 1980, 2067 966, 1026, 1980, 2067
Van Frankenhuyzen, K. 19
Van Hamburg, H. 1413
Van Harten, A. 2854
Van Heemert, C. 4217
Van Herrewege, J. 6048
Van Hes, R. 639, 2627
Van Hoecke, A. 3823
Van Huis, A. 763
Van Impe, G. 203
Van Lenteren, J. C. 195, 1
197, 199, 200, 201, 259, 3808, 6320
Van Lenteren, J. V. 198
Van Lenon, J. 3277 1594 Van Loon, J. 3277 Van Rak, H. 6328 Van Rak, H. 6328 Van Rensburg, N. J. 557 Van Rinsvelt, H. A. 2323 Van Rossem, G. 533 Van S. Greve, J. 5222 Van Sambeek, J. W. 6729 Van Sas, J. 197 Van Schoonhoven, A. 100 1024, 1025, 6658 Van Steenwyk, B. 1483 1008.

Van Steenwyk, R. 1273 Van Steenwyk, R. A. 3550 Van Steyvoort, L. 464, 1524, 6533 Van Tiel, N. 5252 Van Touw, J. H. 1788, 4683 Van Vuuren, S. P. 1469 Van Wyk, R. J. 6651 Vance, H. L. S. 2085 Vance, H. L. S. 2085
Vancouver Research Station,
British Columbia 4178
Vandemark, N. L. 3241
Vandenberg, J. S. 606
Vander Meer, R. K. 685
Vanderroost, C. 3277
VanDrasek, G. 6690
Vanhaecke, M. 3802
Vanhaelen-Fastré, R. 2153
Vanhaelen, M. 2153
Vanhaelen, M. 2153
Vanhaelen, M. 2153
Vanhaelen, G. 1238, 4792
Vanwetswinkel, G. 3806
Van'yants, G. M. 5714
Varadharajan, G. 345
Vargas C., H. 4406
Vargas, P. 4018
Vargas, R. Villarreal 1650
Vargová, M. 640
Varis, A. L. 4591, 5280, 5997
Varkonda, Š. 640, 1139
Varley, G. C. 4290
Varma, A. 290, 5686
Varma, A. K. 5485
Varma, G. C. 2830, 6307, 6308
Varvara, M. 948 Vancouver Research Station, 6308 6308
Varvara, M. 948
Varvio-Aho, S. L. 4967, 4968
Vásárhelyi, T. 3314
Vasev, A. 1455, 3487
Vasić, K. 5792, 5965
Vasil'ev, S. V. 5542
Vasileva, N. 1964
Vasov, V. M. 1587
Vassilaina-Alexopoulou, P. 1966 Vassilama-Alexopoulou, P. 1966
Vasudevan, P. 5702
Vats, L. K. 5298, 5305
Vauchelle, G. de 2619
Vaughn, C. R. 1271, 1282, 1283, 1284, 1285, 1286
Vaughn, J. L. 1627
Veda, O. P. 2021
Veeravel, R. 2091, 5707
Veeresh, G. K. 1888, 2780
Vega, B. Fernández 6480
Veivers, P. C. 3260, 4754
Velcheva, N. 5988
Veletskiř, I. N. 1313
Velthuis, H. H. M. 81
Velusamy, R. 335, 6414
Venard, R. 5324
Venkatesh, M. V. 2316
Venter, R. J. H. 6541
Venugopal, M. S. 2858, 3190, 5573, 5574
Venugopal, R. 5956 1966 Venugopal, R. 5956 Venugopala Rao, N. 2379 Vepsäläinen, K. 133, 4967, 4968 4968 Verdcourt, B. 2090, 5143 Vereijken, P. H. 298 Vereskun, T. M. 296 Verigin, V. 2198 Verity, D. S. 4306 Verlhac, A. 3461 Verma, A. 2357 Verma, A. N. 869, 1393, 1500, 2282, 6656 Verma, G. D. 2365, 3377 2282, 6656
Verma, G. D. 2365, 3377
Verma, J. K. 1819
Verma, K. D. 5137, 5691
Verma, K. L. 2443, 5070
Verma, M. L. 3924
Verma, R. 5558
Verma, R. S. 2281
Verma, S. 1693, 6512
Verma, S. C. 846, 1896
Verma, S. K. 898, 3932, 3943, 3945, 5544, 6402, 6419
Vermeulen, J. B. 642

Verner, P. H. 6033 Vernoff, S. 5204 Verschoor-Van der Poel, P. J. G. 195
Versoi, P. L. 4940
Vertinsky, I. B. 574
Veselica, M. M. 3283
Veselinov, D. 301
Veyrunes, J. C. 5138
Viajante, F. 3389
Viajante, F. 3389
Viajante, V. 3402
Viamontes Diaz, O. 3953
Viana, P. A. 5569
Vick, K. W. 2205, 4764
Vickerman, G. P. 3433
Vickery, V. R. 1179, 1180, 1181, 2314
Vidal Sarmiento, J. A. 4442 Verschoor-Van der Poel, P. J. 1181, 2314
Vidal Sarmiento, J. A. 4442
Vidali, P. 3111
Vidano, C. 6457, 6587, 6588
Videnova, E. 5845, 5847
Vidyachandra 3974
Vidyachandra, B. 3381, 6381
Vidyachandra, B. 3381, 6381
Vidyachandra, B. 5557
Vieira, A. O. Santos 187
Viennot-Bourgin, G. 1470
Viggiani, G. 847, 2332, 2370, 2455, 3490, 3491, 3506, 5632, 5637, 5640, 6018, 6024, 6455
Viggiani, L. 5287
Vignarajah, N. 429
Vignault, J. C. 1470, 6668
Vigneron, J. P. 689
Vijay Singh 281
Vijayan, M. 6396
Vikberg, V. 257
Vilageliu Arqués, L. 6047
Viljoen, J. H. 6328
Vilkova, N. A. 5542
Villacorta, A. 5427
Villagrán, E. 4950
Villareal, R. 6385
Villarreal Vargas, R. 1650
Villas Boas, A. M. 1370
Villayaso, E. J. 1246
Villiers, W. M. de 6652
Vincent, J. F. V. 37
Vinson, S. B. 2276, 2341, 2672, 2679, 3691, 4448, 5244, 5442, 6291
Viramo, J. 3985
Virgona, C. T. 659
Visalakshi, A. 2031
Viscuso, R. 5307, 5457
Visscher, S. N. 1244, 4959
Visscher, S. N. 1244, 4959
Vissunath, B. N. 1464
Viswanathan, A. R. 3898
Vita, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vita, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vita, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vita, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vita, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vita, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vita, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4621, 4629
Vivekanandan, P. 3898
Vitá, J. de 4975
Vité, J. P. 4 4815 4815 Vostrowsky, O. 2582 Vosth, V. 3987 Votyakov, V. I. 1314 Vovlas, N. 1077 Vrabl, S. 6454

Vrain, T. 359
Vrain, T. C. 269
Vries, A. W. de 1138
Vrkoč, J. 2872, 4108
Vroey, C. de 1263
Vu, M. H. 3721, 5158
Vulcano, M. A. 2933
Vuuren, S. P. van 1469
Vyas, A. M. 5550
Vybornov, R. V. 1636
Waage, J. K. 111
Waclawski, I. 3253
Wada, K. 732
Wada, T. 1409, 3386, 6382
Wada, Y. 3755, 5325
Wadhams, L. J. 1096, 1801
Wadhi, S. R. 5251
Wadnerkar, D. W. 1365, 5831
Wagner, T. L. 1069, 1093, 5751
Wago, H. 747, 2697, 5336 Wah, N. K. 5968 Wahab, W. Abdul- 4335 Wahba, M. L. 971, 983 Wahed, S. A. A. El- 1043, 2536
Wahi, S. D. 1494
Wahid, P. A. 2147
Wahla, M. A. 5382
Wai, H. C. 677
Wainhouse, D. 3577
Wainstein, B. A. 5019
Wainwright, D. H. 1121
Waiss, A. C., Jr. 304, 2486, 5029
Waite G. K. 2447 2536 Waite, G. K. 3447 Wakamura, S. 4835 Walcher, H. Pschorn- 2356, Walcher, H. Pschorn- 2356, 4630
Walczak, F. 1869, 3373
Wald, A. 2014
Waldbauer, G. P. 897, 3387, 4517, 4588
Waldert, R. 2076
Walgenbach, D. D. 6217, 6247, 6251, 6253, 6255
Walgenbach, P. 6151
Walgenbach, P. J. 6227
Waliszewski, S. 1863
Walker, A. K. 4321, 4694
Walker, C. 531
Walker, D. J. 4662
Walker, D. J. 4662
Walker, R. J. 3274
Walker, T. J. 6102
Walker, W. F. 1269
Walkey, D. G. A. 5089
Walk, R. G. 3528, 4038
Wallace, A. R. 5883
Wallace, A. R. 5883
Wallace, H. A. H. 3127, 3135, 4668
Waller, G. D. 3336 Wallace, H. A. H. 3127, 313
4668
Waller, G. D. 3336
Waller, J. B. 4654
Wallis, L. W. 5139
Wallner, W. E. 73, 1564,
4941, 6225
Waloff, N. 2918
Waloff, N. 2918
Waloff, N. 2918
Waloff, Z. 5906
Walser, R. 659
Walsingham, J. M. 3435
Walter-Echols, G. 6215
Walters, M. C. 6369
Walters, P. 6437
Walters, P. J. 4541
Wang, C. C. 1998
Wang, T. H. 1579
Wang, Y. K. 6287
Wang, Y. S. 180
Wani, R. L. 919
Wanjama, J. K. 1390, 1505
Wappes, J. E. 1076
Waquil, J. M. 5569, 5811
Warchalowski, A. 2179
Warde, W. D. 1970
Wardecker, A. 1877
Wardhaugh, K. G. 4608
Wardojo, S. 4098

Ware, G. W. 648 Warner, R. E. 1909 Warthen, J. D., Jr. 637 Warwick, S. I. 2856 Washburn, J. O. Washio, H. 6045 Washizuka, Y. 1603 Wasti, S. S. 1633, 6682 Wasti, S. S. 1633, 6682 Watanabe, A. 5366 Watanabe, H. 3688, 5432 Watanabe, I. 3917 Watanabe, M. 277, 4291, 4829 Watanabe, N. 5051 Waterhouse, D. F. 5930 Waters, R. M. 1742 Waters, W. E. 5444 Watkins I F II 1798 Watkins, J. F., II 1798 Watkinson, J. H. 1947 Watrous, L. 6022 Watson, A. K. 4483 Watson, F. L. 5423 Watson, G. F. J. 3423
Watson, G. F. 4286
Watson, R. N. 4531
Watson, W. S. 5718
Watson, W. F. 1098
Watson, W. F. 1098
Watson, W. Y. 261
Watt, J. C. 2771, 4654
Watters, F. L. 2093, 2094, 3124, 3648, 4119, 5223
Wattle Research Institute, South Africa 2597
Way, M. J. 5931
Wearing, C. H. 2956
Weatherston, J. 5279
Webb, D. W. 2661
Webb, J. W. 1561
Webb, R. E. 1589
Webley, D. J. 4664, 4665
Webster, G. R. B. 2093, 4119
Webster, J. A. 865, 6158
Webster, G. R. B. 2093, 4119
Webster, J. A. 865, 6158
Webster, W. J. 6460
Weeda, E. 3743
Weerapat, P. 325, 2397
Wegner, E. 5759
Wegner, G. S. 4530
Wegner, H. 1710
Wegorek, W. 1861
Wei Chun Ma 6322
Wei Hsuang Chu 3686
Wei, L. Y. 1302
Wei Min, Law 322
Wei Min, Law 322
Wei Min, Law 322
Weidhaas, D. E. 826
Weidner, H. 2084, 3106, 3107
Weik, T. 3581
Weintraub, H. 4225
Weires, R. W. 382, 2963
Weirich, G. F. 4784
Weisenberg, E. 4710
Weiser, J. 5842, 5853
Weismann, L. 38
Weiss, M. J. 365, 6236
Welch, S. K. 3741
Welch, S. M. 386, 3186
Wellenstein, G. 3175, 5747
Wellik, M. J. 4051
Welling, W. 1138, 4265
Welling, R. 639, 2627
Welling, N. J. 365, 6236
Welch, S. R. 3741
Welch, S. M. 365, 3186
Wellenstein, G. 3175, 5747
Wellis, P. D. 6547
Wellis, P. D. 6547
Wellso, S. G. 868
Werner, F. A. 6338
Werner, P. A. 6338
Werner, P. A. 6338
Werner, P. A. 6338
Werner, R. A. 544, 5738
Weseloh, R. M. 1563, 1564, 3293, 4942 Weseloh, R. M. 1563, 1564, 3293, 4942
Wessels, C. L. 1519
West, J. R. 3064
West, P. R. 3205
Westby, E. J. 6192
Westcott, R. L. 4306
Westdal, P. H. 3035
Western Australia, Department of Agriculture 692

Westigard, P. H. 2434, 2932, 3483, 5609 Westphal, D. F. Wetherall, R. 6437 Wetzel, T. 1292, 2865, 2866, 6362 Whalley, P. E. S. 5296 Whalley, P. E. S. 5296 Whalon, M. E. 2024, 3538, 4936, 4943, 4944 Wharton, G. W. 3281 Wheatley, G. A. 6501 Wheeler, A. G., Jr. 27, 2069, 2574, 5059, 5061, 5761 Whelan, J. 3425 Whitcomb, R. F. 5239 Whitcomb, W. H. 857, 2367, 4245 4245 White, B. N. 723 White, I. M. 6029 White, J. 4635 White, J. G. H. 58 White, J. G. H. 5881 White, L. D. 2444 White, M. B. E. 6620 White, N. D. G. 3135, 4120 White, P. F. 412, 4571 White, R. A., Jr. 724 White, R. E. 5285 White, W. 1426 White, W. B. 568 Whitehead, D. R. 285, 400, 3338 3338
Whitfield, P. J. 1301
Whitford, W. G. 4974
Whitham, T. G. 4093
Whitmore, W. 1244
Whitney, W. 3208
Whitt, G. S. 4534
Whittaker, J. B. 1906
Whitten, M. J. 4798, 4804
Whitworth, R. J. 305, 5535, 6159 3338 Whitwell, J. D. 4578
Whitworth, R. J. 305, 5535, 6159
Wibo, C. Gregoire 212, 3823
Wickman, B. E. 4636
Wicks, R. 2482
Widstrom, N. W. 304, 3885
Wiebes, J. T. 4001
Wiebes-Rijks, A. A. 4186
Wiedmer, H. 5652
Wien, H. C. 3525
Wiener, L. F. 97
Wiens, J. E. 5094
Wiesner, C. J. 2204
Wieten, M. 3257
Wigglesworth, V. B. 2190
Wightman, J. A. 1949
Wijnen, T. 1980
Wiktelius, S. 5521
Wilbert, H. 2338, 5961
Wilcox, J. 4015, 4416
Wilde, G. 4503, 6169
Wilding, N. 1635
Wilkaniec, Z. 5048
Wilkey, R. F. 2779
Wilkin, D. R. 4131
Wilkins, P. J. 6046
Wilkinson, C. 2168
Wilkinson, C. 2168
Wilkinson, D. Sa47
Wilkinson, J. D. 3547
Wilkinson, S. C. 1071, 1086, 1087, 1101, 2578
Willard, J. I. 6157
Williams, B. A. 6046
Williams, B. R. 2517
Williams, C. M. 6078, 6082
Williams, C. M. 6078, 6082
Williams, D. J. 6103, 6583
Williams, J. R. 1372, 6103, 6347
Williams, J. R. 1372, 6103, 6347
Williams, L. H. 4136 3137 6159 6347
Williams, K. A. Regas- 448
Williams, L. H. 3136, 3137
Williams, M. A. 963, 5416
Williams, P. 3655
Williams, R. N. 365, 366, 1965, 3457, 6236
Williams, S. A. 2766
Williams, W. G. 5115
Williams, W. P. 3891
Williams, W. R. 554

thor Index liamson, B. 940 liamson, D. L. 5239 lis, W. G. 5209 lson, B. W. 5938, 5945 lson, H. R. 4945 son, E. O. 2293 son, F. D. 2524, 5726 son, G. G. 617, 5842 son, I. D. 1809 son, L. F. 564 son, M. C. 2417, 2418, 5580 son, M. C. 2417, 2418, 5580 5580 son, M. R. 191 son, R. F. 2011 son, R. G. 50, 1 son, R. L. 2524, son, W. T. 1877 mer, L. T. 4241 50, 1211, 1212 2524, 5726 1877, 3718 mer, L. T. 4241 nchester, R. V. 585, 2273 ndle, P. N. 2890 ndle, P. N. 2890 ng, K. D. 5257 nks, C. W. 371 nn, D. T. 1940 nnie, W. V. 6165 nter, T. G. 5157 rth, W. W. 498, 4080, 4557, 6011 rthlin, T. 2153 seman, B. R. 304, 2407, 3885 seman, B. R. 304, 2407, 3885
seman, J. R. 2095
seman, J. S. 940
śniewski, J. 2800
ssa, H. 5971
t, C. T. de 1830
thers, W. 4632
tkowski, J. F. 1395
tkowski, J. F. 1395
tkowski, W. 1867
tt, D. J. 610
tt, R. L. 1522
tte, M. de 4701
tteman, J. 5739
tter, J. A. 2568, 6213
ttmer, W. 2266
ttwer, H. 5538
tz, J. A. 65, 1048, 3323
nuk, A. 3472
pessner, R. A. 5770
pets, J. 194, 196, 197, 3808, 3829
phlers, D. W. 4250 3829 bhlers, D. W. 4250 bhlers, P. 6110 bhlgemuth, R. 588, 593, 3129
hlmuth, N. 5708, 5734
hrmann, K. 2195, 3301
hiwod, I. P. 1912
jitowski, F. 5048
hjtusiak, J. 3246
hlf, D. D. 2925
hlf, W. 1271, 1281, 1283, 1284, 1285, 1286
hlf, W. W. 3550, 5646
hlfenbarger, D. A. 1543, 1549, 2518, 2534
hlfersberger, M. G. 3250
hlgamott, M. L. 229
hlerman, E. H. 521, 5152, 6207
hlmarans, E. 6651 6207 olmarans, E. 6651 ong, B. L. 2585 ong, D. T. W. 4097 ong, H. R. 596, 1593 ong, I. M. 39 ong, S. W. 965 ongsiri, T. 911, 912 oo, S. M. 2197 ood-Baker, C. S. 4404, 5297 ood, D. L. 1736, 2199, 2580, 3064, 5327, 5775, 5782 5782 5782
ood, G. A. 367
ood, H. A. 6688
ood, J. L. 1785
ood, J. R. 77
ood, S. L. 1577, 2555, 2590
ood, T. G. 134, 4524
oodard, H. D. 6730
oodford, J. A. T. 940
oodhead, S. 5040
oodring, J. P. 3256
oodroffe, G. E. 3616

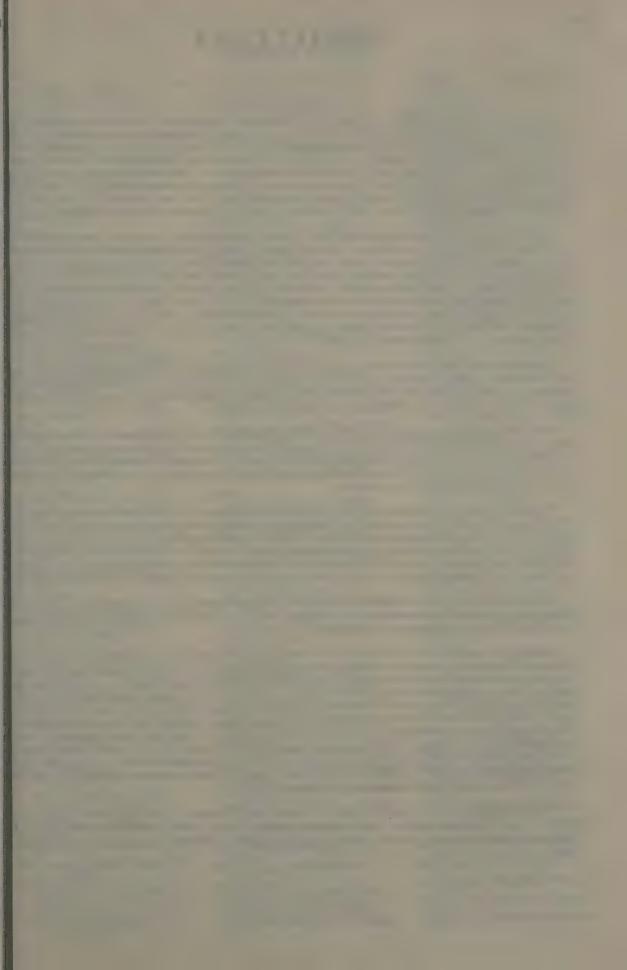
Woodroof, J. G. 936 Woodruff, J. G. 2942 Woodruff, R. E. 824, 2971, 5081 5081 Woods, C. W. 3754 Woods, W. 6356 Wool, D. 2601, 3768, 5348 Wooster, M. T. 561 Wootton, R. J. 53 Workman, R. B. 1000, 2002 World Health Organization 2643, 3217 2643, 3217 Worm, R. A. A. 4228 Worms, C. G. M. de 163, 3770 3770
Worthing, C. R. 2621, 4152
Wratten, S. D. 3761
Wray, W. 1789
Wrenn, N. R. 5865
Wright, A. N. 5985
Wright, C. G. 573
Wright, D. 6276
Wright, E. J. 5471, 5472
Wright, J. E. 1049, 1242, 1847, 2726
Wright, T. R. F. 2722
Wright, T. R. F. 2722
Wright, V. F. 6179
Wright, W. E. 927
Wrzeszcz, A. 2686
Wu, C. 2371
Wu, K. C. 949
Wu, S. H. 1579
Wu, Y. J. 4993, 5473
Wu, Y. R. 5473
Wuensche, A. L. 1415, 3735
Wuorenrinne, H. 133
Wyatt, G. R. 55, 736, 4241
Wyatt, I. J. 412
Wyatt, S. S. 4241
Wyatt, S. S. 4241
Wyk, R. J. van 6651
Wylie, H. G. 996, 4021, 4575
Wyman, J. A. 1002, 1021, 1485, 2426, 2501, 3534, 3986, 3987, 5704
Wyniger, R. 3663
Wytostkiewicz, K. 3675
Wysoki, M. 3489, 3697, 6479
Xie, Q. J. 619
Xie, Z. N. 2241
Xu, L. M. 5145
Ya-Klai, V. 2909, 3909
Yaacob, O. 437
Yadav, B. S. 434
Yadav, D. N. 476, 4023
Yadav, J. S. 4269, 5351
Yadav, R. C. 2464
Yadava, C. P. 329, 2904
Yadava, C. P. 329, 2904
Yadava, C. P. S. 1361, 5263
Yadava, C. P. S. 1361, 5263
Yadava, S. R. S. 3009
Yadgiri, B. 1709
Yaga, S. 1356
Yaginuma, K. 2692, 6458
Yaginuma, T. 2687, 4264
Yagodin, S. V. 418
Yakaitis, B. 5395, 5397, 5399
Yakimavichuy, A. B. 3446
Yakimavichuy, A. B. 3446
Yakimavichuy, A. B. 3430
Yakimavichuy, A. B. 3330 5394, 5400
Yakimavichyus, A. B. 3339
Yakubov, A. 265
Yakulov, F. Ya. 5839
Yamada, H. 76, 424, 3721, 5661, 6107
Yamada, K. 1433, 1446
Yamada, M. 1457, 2964, 6458
Yamada, Y. 808
Yamaguchi, K. 6486
Yamaguchi, T. 4249
Yamamoto, D. 1813, 6045
Yamamoto, M. 5367
Yamamoto, M. 5367
Yamamoto, R. T. 4048, 5115
Yamamoto, T. 1240, 4684, 5854 5854 Yamane, A. 5158 Yamane, S. 78, 99, 2167 Yamane, Sk. 2167

Yamaoto, H. 1219 Yamasaki, M. 6486 Yamashita, K. 4767 Yamashita, O. 2687, 4264, 4768, 5005, 5008 4768, 5005, 5008
Yamashita, T. 3320
Yamauchi, M. 4827
Yamazaki, A. 49
Yan, L. M. 2403
Yang, C. N. 448
Yang, C. T. 1884
Yang, I. L. 1005
Yang, L. C. 997
Yang, M. H. 619
Yang, M. K. 731
Yano, K. 913
Yao, A. L. 934
Yaragamblimath, J. S. Yaragamblimath, J. S. 683, 2219 2219
Yarger, L. C. 5738
Yaron, B. 3202
Yasmeen, N. 4522
Yassin, A. M. 4341
Yasuda, K. 2859, 2931
Yasuda, M. 3503
Yasuda, S. 1198
Yasumatsu, K. 2370, 3965, 5736 Yasumatsu, K. 2370, 3965, 5736
Yata, O. 1827, 5372
Yates, H. O., III 3136
Yeadon, R. 5270
Yeargan, K. V. 67, 1511, 2415, 6195, 6200
Yearian, W. C. 3527
Yen, Lam Thi My 1168
Yendol, W. G. 4937, 4940
Yeo, D. 5914
Yerington, A. P. 2606
Yin, C. M. 2216
Yin, H. T. 2403
Yin Yin May 842 Yin, H. T. 2403 Yin Yin May 842 Yokimizo, K. 1705 Yokoyama, T. 4802 Yokoyama, V. Y. 5130 Yonce, C. E. 395, 1461 Yonis, S. 3821 Yonke, T. R. 2, 1945 Yoo, C. M. 44 York, A. C. 3512 Yoshida, A. 1827, 5372 Yoshida, H. 1251 Yoshida, N. 5737 Yoshida, N. 5737 Yoshida, S. 1270, 5158 Yoshidara, T. 4516, 6385, 6389 6389 Yoshimoto, M. 1146 Yoshioka, H. 655, 1697 Yost, M. T. 90 Youdeowei, A. 1678, 4593, Younes, M. W. F. 770 Young, A. M. 3866, 4651, 5499 Young, D. A. 287 Young, D. K. 3618, 5826, 6641 Young, G. R. 5533 Young, J. 5884 Young, J. H. 1047 Young, J. R. 5428 Young, R. G. 41 Young, S. Y. 608, 3527 Younghusband, J. E. 6443 Younis, H. M. 4359 Yousef, A. E. T. A. 2048 Youssef, K. E. D. H. 4389 Youssef, K. H. 411 Yousuf, M. 1773 Yu, S. J. 4785 Yu, S. T. 6332 Yuan, Y. L. 4866, 6442 Yufera, E. Primo-Yukawa, J. 2767, 3096, 5376, 6483 Young, G. R. 5533 6483
Yule, W. N. 4147, 6303
Yule, W. N. 4147, 6303
Yund, M. A. 3278
Yura, Y. 1145, 1146
Yushima, T. 1222
Zabża, A. 2644, 5989
Zacay, I. Bar- 4560, 4561
Zachariah, P. K. 6343
Zacharuk, R. Y. 1772, 5431
Zachary, A. 4130

Zack, R. S. 581 Zadishvili, V. S. 5803 Zadoks, J. C. 1913 Zafar, I. M. 2551 Zafar, M. A. 3972 Zagulyaev, A. K. 141 Zahab, A. Aboul-4344, 4345
Zahedi, Kazem- 228
Zaher, M. A. 830, 1769, 1894
Zaitsev, A. M. 2118
Zaitsev, Yu. M. 1199
Zajančkauskas, P. 5387, 5396
Žak-Ogaza, B. 2271
Zakharenko, A. V. 5484
Zakharov, A. A. 2256
Zakharov, A. A. 3171
Zalkow, L. H. 5996
Zalom, F. G. 5556
Zatucki, A. 3705
Zaman, S. M. H. 319
Zamanskaya, I. Sh. 6712 4345 Zamanskaya, I. Sh. 6712 Zambrini, A. 3116 Zamola, B. 3156 Zampetti, M. F. 4298 Zandstra, H. G. 438 Zanger, C. D. 2244 Zangheri, S. 5655 Zapryanov, A. 2442 Zar, J. H. 4635 Zaretsky, M. 753 Zarnoch, S. J. 4631 Zaslavskiĭ, V. A. 5380 Zayanchkauskas, P. 5387, 5396 Zayanchkauskas, P. A. 344 Zamanskaya, I. Sh. Zayanchkauskas, P. 5387, 5396
Zayanchkauskas, P. A. 3466
Żdarek, J. 2872
Zečević, M. 6142
Ze'ev, I. Ben- 5621
Zehner, J. M. 4115
Zeid, M. 486
Zeid, M. I. 4398, 5824
Zeller, W. 1323
Zem, A. C. 2983, 5696
Zemskov, V. V. 2120
Zemzina, T. N. 265
Zenouz, E. Bagheri- 207
Zepp, D. B. 1058, 5135, 5185
Zerahn, K. 6054
Zerillo, R. T. 1072
Zervas, G. 2247
Zethner, O. 3693, 6097, 6531
Zettler, J. L. 2638, 4115
Zhang, W. Q. 4867
Zhang, W. Q. 4867
Zhang, X. Z. 6129
Zhdanov, I. N. 3157
Zherebtsova, E. N. 4679
Zhidkov, N. A. 5058
Zhimerikin, V. N. 1641, 1643
Zhong, T. S. 2588
Zhou, L. K. 6405
Zhumanov, B. Zh. 2818
Zhuzhikov, D. P. 1897
Ziarkiewicz, T. 2893
Zidan, Z. H. 4362, 4363, 4375, 4377, 4386, 4388, 4390, 4397
Ziegler, R. 4241
Zielińska, Z. M. 4168 Ziegler, R. 4241 Zielińska, Z. M. 4168 Zile Singh 5228 Zimbabwe, Cotton Research Institute 5123 Zimbabwe, Plant Protection Zimoabwe, Flant Protection
Research Institute 4720
Zimbabwe, Tobacco Research
Board 4077
Zimmack, H. L. 3265, 3380
Zimmerman, E. C. 4206, 4614
Zimmerman-Gries, S. 467, 1020 IU20 Zimmerman, M. 87 Zimmermann, F. J. P. 5566 Zimmermann, G. 5524 Zinca, M. 105, 106 Ziser, S. W. 2690 Ziuman, B. V. 6299 Zmudowska, A. Romankow-1869 Zocchi, R. 1471 Zocbelein, G. 4383 Zolotov, L. A. 173 Zomorodi, A. 3364 Zon, Y. H. 180

868

Zondag, R. 5764
Zuber, M. S. 304
Zucchi, R. 201, 3807
Zuclsdorff, N. T. 6173
Zukeyama, H. 2725
Zummer, M. 3154
Zumpt, F. 10
Zümreoğlu, A. 3747
Zungoli, P. A. 4028
Zur, M. 485
Zurlini, G. 2261, 4284
Zushi, M. 1718
Zusková, Z. 5001
Zutshi, M. 1782, 6711
Zvi, S. Nahum- 6699
Zwolińska-Śniatałowa, Z. 5114
Zylberberg, L. 1800



SUBJECT INDEX

The subject indexes of the Review of Applied Entomology not only provide for detailed manual searches under wide variety of headings, but also provide a wide variety of standardised terms for use in computer-assisted search of the CAB database. The most detailed entries are those under the names of arthropods, but other organisms, countrie chemicals, habitats and general subjects (e.g. Fertilizers; Mating disruption; Pest management; Reviews; Trap, se attractant) are also used as headings. Index headings are not selected from any one thesaurus, but fairly strict vocabula control is achieved by careful checking of systematic names of organisms and chemicals, by adhering to CAB standar for pest-control chemicals and pharmaceuticals, and by selecting most other index headings to conform with othe CAB abstract journals or with Chemical Abstracts or Index Medicus. All references are to abstract numbers.

Under the names of arthropods there are references to their control, distribution, food-plants, hosts, natural enemic taxonomy, vector ability, and miscellaneous subjects. Entries for species will be found under the generic name, at there are also inverted names with the specific and subspecific epithets placed first. The names used for arthropo in this index are those used in the abstracts, because these names have all been checked against the card indexes mait tained by the Institute. These card indexes are continuously updated to take account of taxonomic revisions, and cases of difficulty the taxonomists employed by the Institute or by the British Museum (Natural History) are consulted. If two or more names are accepted by the Review for a taxon during one year, each name is entered separatel with a 'see also' cross-reference to other names. Cross-references from names used by authors but not accepted by the Review are given to the currently-accepted names.

Animals other than arthropods are indexed to specific level only, under English common names for the more important domesticated birds and mammals, or under scientific names. At both these types of heading will be found references to the arthropods that affect the animal concerned, and to the side-effects of pesticides. Cross-references agiven between common names (sometimes inverted) and scientific names.

Plants are indexed under English common names of the more important or familiar crops, or under scientific name down to species level. At both these types of heading will be found references to the arthropods that affect the plant concerned, to arthropod-transmitted pathogens, and to the side-effects of pesticides. Cross-references are given between common names (sometimes inverted) and scientific names. Many plant headings have been selected to conform with Horticultural Abstracts and Field Crop Abstracts.

Viruses pathogenic for arthropods are indexed under the name of the host, and the hosts are listed at the heading 'Viruses and virus diseases'. Other pathogens of arthropods are indexed at the scientific name of the pathogen. Plan viruses and mycoplasma-like organisms are indexed at common names corresponding to those in the Review of Plan Pathology. Other pathogens of plants are indexed at the scientific names of the pathogen, if one is available, or elementary the English common name. As an aid to locating all the information concerning annelids, bacteria, fungi, helminth molluscs and protozoans, an entry has been made for each relevant abstract at the name of either a phylum or a class

Geographical locations are keyworded, as appropriate, to faunal regions, continents, countries, archipelagoes islands, and (for Australia, Canada and the USA) to States, Provinces or Territories. The subheadings refer mainly to pest arthropods, with some references to pest control.

Chemicals are normally indexed under either a common name or a systematic name, but a few unidentified complex substances are indexed under names used by authors. The majority of the common names used for chemical for the control of arthropod pests are listed on pp. 7-10 of RAE volume 68, and in addition, other common name stated in the 6th, edition of the Pesticide Manual (noticed in RAE/A 68, 4152) to have been adopted by BSI, ISO ANSI are now used. Common names of herbicides and plant growth regulators listed in recent issues of Weed Abstract are now used in RAE, and so are the common names of other pesticides (including fungicides and nematicides) give in the Pesticide Manual. International Nonproprietary Names approved by the World Health Organization are also now used in RAE. Most substances without approved common names are indexed under the names used in the index of Chemical Abstracts volumes 86-95. Cross-references are provided to these inverted systematic names, and in son cases synonyms are given with the entries. Cross-references are also provided from inverted systematic names to man of the common names, and definitions are printed at these headings.

Habitat headings are chosen, whenever possible, beginning with the name of a crop (e.g. Apple orchards; Whe fields). In most other cases, inverted names are selected as headings (e.g. Forests, coniferous; Grassland, arid). Su headings are mostly concerned with the distribution of beneficial arthropods and the non-target effects of pest control.

SUBJECT INDEX

47171 against, Nilaparvata lugens, on rice 3928 n rice, reducing reproduction by Nilaparvata lugens 3928 acarus hystrix in UK 3441, 5575 on Lolium multiflorum, effects of cutting on Lolium perenne, effects of cutting on 3441 on pasture plants, in UK 5575 ryegrass mosaic virus in, transmission of 3440 aenus, Phyllocoptes pantiades latipennis biology of 1091 in Australia 1091 on Eucalyptus obliqua, damage caused by 1091 on Eucalyptus regnans, damage caused by 1091 parasitised by, Rutilotrixa diversa, in Tasmania 1091 pate (see Temephos) bottii, Nematus bottu, Nematus
breviatus, Diaprepes
chasica, Anomala
dominalis, Microcephalothrips
dominalis, Xylophagus (see X. cinctus)
belia, Callirhopalus bifasciatus on 5135
belmoschus esculentus (see Okra) errans, Amblyseius
BG-2000 (see Benzene, 1[(diiodomethyl)sulfonyl]-4-methyl-)
icollis, Platygaster Adelges piceae on, in British Columbia 6636 Adelgidae on, in France 3611 Opiella baburini on, in USSR Orgyia pseudotsugata on in Oregon 5215 in Washington 5215 Scolytidae on, in France 3612 Scolytus ventralis on, fungi associated with 2065 Xylophagus cinctus on 2661 bies alba Cryphalus piceae on, in Poland 3594, 3601 insect pests of, in Italy 6592

Xyloterus lineatus on, in West Germany 4621 bies balsamea Choristoneura fumiferana on damage caused by 3582, 6623 effects of fertilizers on 5777 effects of fertilizers on 5777
forecasting infestations of 1597
in Maine 5748
in New Brunswick 6622
in Ontario 6620, 6632
in Quebec 6609, 6630
model 6140
Dasineura balsamicola on 1100
insect growth regulators in, persistence of 1167
Paradialogic tumifax on 1100 Paradiplosis tumifex on 1100 in Maine 1099 Abies bornmuelleriana, Pyrochroa coccinea on, in Turkey 1084 Abies concolor Orgyia pseudotsugata on effects of site and stand characteristics on 3588 effects on growth rate of 4636 in New Mexico 1070, 4106 in Oregon 4106 Pleroneura spp. on, in California 3066 Abies grandis Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on, damage caused by 2586, 5216 Scolytus ventralis on damage caused by, model 6635 in Oregon 5216 resistance to 2586 Trichosporium symbioticum in, containment of 2585

Abies koreana, Cinara confinis on, in Netherlands 533 Abies lasiocarpa, Pityophthorus opaculus on, damage caused by 5207 Abies mariesii, Adelges pectinatae on, in Japan 1559 Abies pindrow (wood) Coptotermes heimi in, not developing 6660 in Neotermes bosei diet, digestion of 6329 Abies veitchii Adelges pectinatae on, in Japan 1559 A. todomatsui on, in Japan 1559 abietella, Dioryctria abieticola, Cinara (see C. confinis) abietina, Pristiphora abietina, Pristiphora
abietin, Aphidoletes
abietis, Aphidoletes
abietis, Cryphalus
abietis, Hylobius
abiusa, Cysteochila
ablusus, Enoclerus
abuormis, Leptomastidea
abrupta, Empoasca
abruptorius, Exenterus
Abscisic acid in Agropur Abscisic acid, in Agropyron smithii, effects on Aulocara elliotti of 4959 absinthii, Aphidius absinthii, Macrosiphoniella absoloni, Acotyledon (see Caloglyphus absoloni) absoloni, Caloglyphus (Acotyledon) aburianus, Sympiesis Abutilon, cotton bollworm on, in Swaziland 2159 Abutilon indicum, Dysdercus koenigii on, in Maharashtra 1365 AC-92100 (see Terbufos) AC-222705 (see Benzeneacetic acid, 4-(difluoromethoxy)-a-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester, (5)-) Acacia Anacridium melanorhodon on, feeding deterrents to 6271
Calomela spp. on, in Australia 4730
Gonimbrasia tyrrhea on, in southern
Africa 5169 insect pests of, in South Africa 2597

Locusta migratoria on, feeding deterrents to 6271 Merobruchus spp. on 1584 Mimosestes nubigens on 1584 Pachypasa capensis on, in southern Africa Stator spp. on 1584 Sternocera spp. on, in Africa 21 Acacia arabica insect enemies of in Pakistan 5498 in South Africa 5498 Acacia arabica (wood) Coptotermes heimi in, not developing Odontotermes obesus in, not developing Acacia ataxacantha, Coccidae on, in South Africa 258 Acacia dealbata Pyrgoides orphana on, damage caused by 5774 Xyloterus signatus on, in England 5143 Acacia decurrens Asterolecanium vittatum on, in Australian Capital Territory 2595 Psylla candida on, in New South Wales 3067 P. jucunda on, in New South Wales 3067 Acacia decurrens mollissima (see A. mearnsii) Acacia koa, arthropods associated with, in Hawaii 1829 Acacia mearnsii

insect pests of, in South Africa 259 Oncideres spp. on, in Brazil 2933 Acacia nilotica indica (see A. arabica)

4086

Acacia saligna, Labdia spp. on, in Victoria

Acacia spirorbis, Tegonotus spirorbis on, in New Caledonia 2656 acadica, Vespula acalephae, Binodoxys Acalitus essigi control of, acaricides for 4547 in UK 4547 on blackberry, in England 4547
Acalymma trivittata in USA 1488 on cucurbits, in California 1488 Acalymma vittatum insecticides in, detoxification of 4158 insecticides in, detoxification of 4158 rearing of, techniques for 6235

**Acalypha macrophylla, Ferrisia virgata on, development of 5357

**Acanthiophilus helianthi control of, insecticides for 2487 in Egypt 4350 in India 2487 in Turkey 1311 in Turkey 1311 in Turkey 1511
on Cynara cardunculus, in Egypt 4350
on safflower, in Turkey 1311
on soyabean, in Madhya Pradesh 2487
on Xanthium spinosum, in Turkey 1311
Acanthocinus aedilis
in Hungary 4109
on Pinus nigra, in Hungary 4109
acanthococci, Apterencyrtus (see Zaomma
acanthococci) acanthococci) acanthococci, Zaomma (Apterencyrtus) Acanthococcus parasitised by Metaphycus bazarovi, in Tadzhikistan 1182 Microterys narzykulovi, in Tadzhikistan 1182 1182
Acanthococcus aceris
biology of 4335
control of, insecticides for 4335
in Iraq 4335
on apple, in Iraq 4335
Acanthocoris scabrator
distribution of 796
in India 796, 1839, 1840
Acanthoderes nigricans
in Colombia 1025 on cassava, in Colombia 1025 Acanthogryllus fortipes control of baits for 6431 insecticides for 6431 in Zimbabwe 6431 on Cynodon, in Zimbabwe 6431 Acantholeucania loreyi (see Mythimna loreyi) Acantholyda erythrocephala, control of, growth regulators for 1560
Acantholyda pinivora control of growth regulators for 1560 insecticides for 5766 in USSR 5766 on *Pinus*, in USSR 5766 Acanthomia on Vigna unguiculata, in Nigeria 454 taxonomy of, synonym of Clavigralla 698 Acanthomia brevirostris, taxonomy of, transferred to Clavigralla 698
Acanthomia horrida, taxonomy of, transferred to Clavigralla 698
Acanthomia tomentosicollis, taxonomy of, transferred to Clavigralla 698
Acanthomia tomentosicollis, taxonomy of, transferred to Clavigralla 698 Acanthomyops murphyi
in USA 1331

Laboulbenia formicarum in, in North
Carolina 1331 Acanthops falcata, rearing of, techniques for Acanthoscelides, taxonomy of, food-plant preferences as characters for 6626

Acanthoscelides collusus, food-plants of 4405 Acanthoscelides distinguendus, food-plants of 4405
Acanthoscelides floridae, food-plants of

4405

Acanthoscelides fraterculus, food-plants of

in Apis mellifera, toxicity of 1710

```
Acanthoscelides obsoletus
                                                                                                  Acaricides contd.
                                                                                                                                                                                                    Acephate contd.
    control of, fumigants for 375 food-plants of 4405
                                                                                                      in Trichogramma embryophagum, toxicity
                                                                                                                                                                                                        against contd.
                                                                                                                                                                                                            Spodoptera contd.
S. frugiperda 5265
                                                                                                            of 1706
     in Bulgaria 375
                                                                                                       sales of, in Finland 6701
in stored beans, in Bulgaria 375
Acanthoscelides obtectus
                                                                                                      substances tested as:
                                                                                                                                                                                                             S. littoralis, on cotton 4386, 4390
                                                                                                           O-aryl O-alkyl S-alkyl
                                                                                                                                                                                                             Sylepta derogata, on cotton 2538
    accessory glands in 4214
biology of 3657
                                                                                                                 phosphorothioates 652
                                                                                                                                                                                                        formulations of, spreader-stickers for
                                                                                                           bis-trifluoromethylimino heterocycles
                                                                                                                                                                                                               3411
                                                                                                                                                                                                       in Apis mellifera, toxicity of 1710 in cotton, effects on fibre quality of 227 in forests, effects on spiders of 2073 in Lymantria dispar, not affecting parasites 4926 in Orgyia pseudotsugata, role of esterase isoenzymes in susceptibility to 2641 on Pseudotsuga menziesii, effects of rain on 2072
    competing with, Zabrotes subfasciatus 5829
                                                                                                      cyclic phosphoramidothionates 653
O-(1,5-disubstituted-6-oxo-1H-pyridazin-
4-yl) phosphorothioates 1139
organophosphates 651
synonyms of 2128
    control of 3657
fecundity in, effects of adult feeding on
1243
     fungal toxins in, toxicity of 1637
    in Brazil 5828
in Colombia 3657
in Swaziland 4662
in Phaseolus seeds, varietal preferences of
                                                                                                           in Central America 4948
                                                                                                           in Japan 6704
in USSR 2135
                                                                                                                                                                                                               on 2072
                                                                                                                                                                                                        resistance to, in
                                                                                                  Acaridae, in Ceutorhynchus galls on rape, in Poland 2469
                                                                                                                                                                                                            Myzus persicae, in New South Wales
1695
           5828
    in Psophocarpus tetragonolobus seeds, resistance to 5222
                                                                                                   Acarus farris
                                                                                                                                                                                                             Phorodon humuli, in Switzerland 501
    life-span in, effects of adult feeding on 1243
                                                                                                      in oat grain, varietal preferences of 3135 in wheat grain, damage caused by 4120
                                                                                                                                                                                                         with Bacillus thuringiensis
ovarian development in 2680 oviposition in 2680, 3520 taxonomy of, Bruchus tetricus as synonym of 4208 vitellogenesis in 2709, 2710 Acanthoscelides obvelatus, food-plants of
                                                                                                                                                                                                        on Abies 6632
on Picea 6632
with cyhexatin, against, Spodoptera
littoralis, on cotton 4386, 4390
with fentin acetate, and maneb, against,
Spodoptera littoralis, on cotton 4386,
                                                                                                  Acarus immobilis
in Canada 3127
                                                                                                       in Vicia faba seeds, in Manitoba 3127
                                                                                                  Acarus siro
                                                                                                      acaricide resistance in, detecting and measuring of 3711
       4405
                                                                                                       control of
                                                                                                      control of
acaricides for 3116
inert dusts for 3652
mould inhibition for 3116
in Irish Republic 5926
in UK 4660
in USSR 5803
in cheese 3116
Acanthoscelides pallidipennis, taxonomy of,
Bruchus collusus as synonym of 4208
Acanthoscelides pullus, food-plants of 4405
Acanthoscelides schrankiae, food-plants of
                                                                                                                                                                                                        with fentin hydroxide, against, Spodopten littoralis, on cotton 4386, 4390 with fungicides, against, pests and disease of Chrysanthemum 4613
       4405
Acanthoscelides seminulum, food-plants of
                                                                                                                                                                                                        Alsophila pometaria on, in New York
Acanthoscelides tridenticulatus, food-plants of 4405
                                                                                                  in cheese 3116
in foodstuffs, extracting of 5220
in pig feed, damage caused by 4131
in stored grain, in Irish Republic 5926
acasta, Melittobia
Acephate (O,S-dimethyl
acetylphosphoramidothioate)
                                                                                                                                                                                                         Callirhopalus bifasciatus on 5135
of 4405
Acanthosoma haemorrhoidale
biology of 4095
descriptions of 4095
distribution of 4095
in Turkey 4095
                                                                                                                                                                                                        Edwardsiana acericola on, in Kazakhstan
                                                                                                                                                                                                        Lepidoptera on, in New Hampshire
Tenthredinidae on, in Europe 5746
                                                                                                       against
                                                                                                           Agrotis orthogonia, on wheat 6167
Aleurocanthus woglumi, on Citrus
                                                                                                                                                                                                        Hyphantria cunea on, in France 3075
in Turkey 4095
on Quercus, in Turkey 4095
taxonomy of 4095
Acanthosomatidae, in Turkey 4095
acapulcensis, Amblycerus
Acarapis, parasitising, Apis mellifera, in
USSR 602
Acarapis dorsalis
in Papua New Guinea 4439
parasitising, Apis mellifera, in Papua New
Guinea 4439
Acaranis actornus
                                                                                                                                                                                                         Proteoteras wilingana on, in Alberta
                                                                                                                  3502, 4566
                                                                                                                                                                                                               1596
                                                                                                                                                                                                   Acer pensylvanicum, insect pests of, predation of 5753
Acer pseudoplatanus, Orthotylus nassatus on, in Pennsylvania 2069
                                                                                                           aphids
                                                                                                               on potato 1530
on tobacco 3560
                                                                                                          on tobacco 3560

Aphis citricola, on grapevine 941

A. gossypii, on cotton 2511

Archips rosanus, on apple 4551

Choristoneura fumiferana
on Abies 6632

C. occidentalis
                                                                                                                                                                                                    Acer rubrum
                                                                                                                                                                                                        insect pests of, estimating defoliation by 3086
                                                                                                                                                                                                        Lymantria dispar on
                                                                                                                                                                                                   Lymantria dispar on development of 5755 feeding by 4632
Acer saccharinum, Eriophyidae on, in New York 2762
Acer saccharum
Acarapis externus
     control of
                                                                                                           on forest trees 2056
on Pseudotsuga 3707
Contarinia pseudotsugae, on
Pseudotsuga 2057
Earias insulana, on cotton 227
     acaricides for 3840
timing of 3840
in New Zealand 3840
     in Papua New Guinea 4439 parasitising
                                                                                                                                                                                                        Corticoris pulchellus on, in Pennsylvania
                                                                                                                                                                                                               1580
                                                                                                           Eupoecilia ambiguella, on grapevine
          Apis mellifera
                                                                                                                                                                                                        Lepidoptera on, in New Hampshire 4932
Olethreutes nigranum on, in Ontario
              in New Zealand 3840
                                                                                                                  5589
                                                                                                           Frankliniella spp., on cotton 25
F. fusca, on groundnut 4039
F. occidentalis, on tomato 1483
              in Papua New Guinea 4439
Acarapis woodi
                                                                                                                                                                                                         Paraclemensia acerifoliella on, in Vermont
     control of
                                                                                                                                                                                                               4105
                                                                                                           Heliothis armigera, on tomato 6550 H. virescens 2310 H. zea, on Cicer arietinum 2302
     acaricides for 3840
timing of 3840
in USSR 602
                                                                                                                                                                                                         Phytobia setosa on, not affecting sap sugar
content 4941
                                                                                                                                                                                                         Symmerista leucitys on, in New York
     on Apis mellifera, resistance to 4803
                                                                                                           Irenimus compressus, on black currant
                                                                                                                                                                                                               1068
     on Apis members, resistance to 4803 parasitising Apis mellifera 1878 in USSR 602 spread of, with Apis mellifera breeding material 4804
                                                                                                                                                                                                   acerbella, Epichoristodes
acerbilis, Tarsonemus
                                                                                                         Lobesia botrana, on grapevine 5589
Mamestra brassicae, on broccoli 565:
Myzus persicae 1462
on potato 6233
Nephotettix virescens, on rice 3411
Nilaparvata lugens 3397
on rice 339, 1935, 3411
Opogona sacchari, on banana 6498
Orgyia pseudotsugata, on Pseudotsuga
2072
Pandemis carraca
                                                                                                                 6720
                                                                                                                                                                                                    Aceria, on walnut, in Kirgizia 1448
                                                                                                                                                                                                   Aceria, on Walnut, in Kirgizia
Aceria gossypii
in India 267
on cotton, in Haryana 267
Aceria mali
descriptions of 388
in Bulgaria 388
on apple, in Bulgaria 388
Aceria parthenii
in Mexico 1664
on Parthenium hysterophoru
 Acari
     in drained bogs, in Irish Republic 3425 in grassland
     communities of 3421
in Irish Republic 3436
in industrial reclamation sites, in England
           3424
                                                                                                           Pandemis cerasana, on apple 4551
Pectinophora gossypiella, on cotton
                                                                                                                                                                                                        on Parthenium hysterophorus, in Mexico
     in pastures
 effects of grazing on 3435
in Irish Republic 3425
in soil, extracting of 4872, 4873
Acaricide resistance 1143
                                                                                                                                                                                                               1664
                                                                                                           Plutella xylostella, on cabbage 5657
Podosesia syringae, on Fraxinus 3085
Polyphagotarsonemus latus, on potato
3018
                                                                                                                                                                                                    Aceria sheldoni
                                                                                                                                                                                                        control of, acaricides for 5080 in South Africa 2973, 5080 on Citrus, damage caused by 29 on orange, in South Africa 5080
 detecting and measuring of 3711
management of 4954
Acaricides
book 2130, 4152
                                                                                                           Pterochloroides persicae 5614
                                                                                                                                                                                                    Aceria tristriata
descriptions of
in USSR 1448
                                                                                                           Spodoptera exigua
                                                                                                               on Cicer arietinum 2302
on cotton 3552
                                                                                                                                                                                                                                        1448
```

)****		673
ria tristriata contd.	Acetic acid contd.	Achatina fulica
n walnut, in Kirgizia 1448	dodecyl ester contd.	control of
ria tulipae ontrol of, acaricides for 5529	with (E)-11-tetradecenyl acetate, and (Z)-11-tetradecenyl acetate contd.	biological 4696 , book 4983
USA 5529	attractant for contd.	natural enemies of, book 4983
n wheat, in Kansas 5529	Eupoecilia angustana 3235	Acheta domesticus
heat streak mosaic virus in, transmission	Mamestra brassicae 3235	food utilisation in 3256
of 5529	Zygaena ephialtes 3235	glycogen in, seasonal changes in 4267
ria vaga h Brazil 1968	ethyl ester, attractant for, <i>Drosophila</i> spp. 2253	in India 4267
USA 1968	octadecyl ester, in Linaeidea aenea	insecticides in, effects on melanisation of 4705
n Juglans hindsii, in California 1968	defensive secretion 4767	mating in 6043
ricola, Edwardsiana	2-phenylhydrazide	metabolic efficiency in 3256
rifoliella, Paraclemensia ris, Acanthococcus	synergist for chlorpyrifos 226	nervous system in 1806
rophagus notativentris, parasitising,	fenvalerate 226	polyembryony in 1781
Pseudococcus obscurus, and biological	malathion 226	proprioceptors in 1192 taxonomy of, cephalic characters for
control using, in South Africa 258	mexacarbate 226	1773
etaldehyde gainst	phosfolan 226 Acetic acid, bis[(aminocarbonyl)amino]-	tris(2-methylphenyl) phosphate in, effects
Frankliniella occidentalis, in	(allantoic acid)	of 6095
strawberries 5826		vitamin E in, role in sperm motility of
Myzus persicae, in lettuces 3618, 6641	in Manduca sexta frass 4246	6095 Acheta turcomana
etaldehyde, (3,3-dimethylcyclohexylidene)- E)- (see also Grandlure)	repellent for, Neoaplectana carpocapsae 1619	descriptions of 13
Z)- (see also Grandlure)	Acetic acid, (2,4-dichlorophenoxy)- (see 2,4-	in USSR 13
taldehyde, phenyl- (see	D)	Achilidae, in New Zealand 4210
Benzeneacetaldehyde)	Acetic acid, (dimethylamino)oxo-, in	Achillea, Diptera on, in Crimea 3304
tamide, N-[5-(aminosulfonyl)-1,3,4- thiadiazol-2-yl]- (see Acetazolamide)	Tetranychus urticae, oxamyl metabolite 4150	Achillea millefolium Macrosiphoniella spp. on 3875
tamide, 2-chloro-N-(1-methyl-2-	Acetic acid, fluoro-, against, Solenopsis	Megalocoleus molliculus on, in USA
propynyl)-N-phenyl- (see Prynachlor)	invicta 3838	2069
etamide, N-[2-(3,4-dihydroxyphenyl)ethyl-	Acetic acid, (methylamino)oxo-, in	Achras zapota
]-, oxidation products of, role in tanning of insect cuticle of 5335	Tetranychus urticae, oxamyl metabolite 4150	Nephopterix eugraphella on, in Punjab
tamide, N-[2-(3,4-dihydroxyphenyl)-2-	Acetic acid, thiocyanato-	Phycita spp. on, in Karnataka 1464
hydroxyethyl]-, in Manduca sexta,	1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,	Achrysocharoides, in UK 6013
metabolite of N-acetyldopamine 5335	exo-	Achrysocharoides atys, group of, in UK
stamide, N-dodecyl-2-fluoro-, against, Solenopsis invicta 3838	synergist for chlorpyrifos 226, 4387	6013 Achrysocharoides carpini
tamide, N-(2-methylbutyl)-	cypermethrin 4387	sp. nov., description of 6013
Dacus neohumeralis rectal pheromone	Du Pont 1642 4387	in Switzerland 6013
glands 3983	endrin 4387	in UK 6013
n Dacus tryoni rectal pheromone glands 3983	fenvalerate 226 malathion 226	parasitising Phyllonorycter quinnatus
tamide, N-(3-methylbutyl)-	mexacarbate 226	in England 6013
Dacus neohumeralis rectal pheromone	phosfolan 226	in Switzerland 6013
glands 3983	with endosulfan, antagonistic 4387	Achrysocharoides latreillii, group of, in UK
a Dacus tryoni rectal pheromone glands 3983	Acetone (see 2-Propanone) acetosae, Aphis	Achyranthes aspera, insect moulting
tazolamide (N-[5-(aminosulfonyl)-1,3,4-	Acetyl-CoA carboxylase (see Carboxylase,	hormones in 2844
thiadiazol-2-yl]acetamide)	acetyl coenzyme A)	aciculata, Agathis
a Locusta migratoria, not affecting	Acetylglucosaminidase, β-, in Spodoptera eridania larval mid-gut 41	aciculata, Eurytoma aciculatus, Mastrus
adenosine triphosphatase 2193	Acetyltransferase, in Tyrophagus	Acid phosphatase (see Phosphatase, acid)
ttractant for, Drosophila spp. 2253	putrescentiae, properties of 4758	Acigona infusella
Drosophila melanogaster responses to	Achaea catocaloides	food-plant specificity in 5507
4674 2. simulans responses to 4674	in Ghana 5358 nuisance caused by 5358	in Argentina 5507 on Eichhornia azurea, in Argentina 550
<i>Icerya purchasi</i> diet, incorporation into	Achaea janata	on Eichhornia crassipes, in Argentina
lipids of 4753	control of	5507
Zootermopsis angusticollis,	biological 476, 1031, 5711	on maize, not surviving 5507
hydrocarbons of 766	insecticides for 3033, 5710, 5711 distribution map for 3303	on Pontederia cordata, in Argentina 5507
ecyl ester, on rubber septa, half-life of	feces of, nitrogen in, determination of	on Pontederia rotundifolia, in Argentina
4171	1814	5507
odecyl ester Euxoa tristicula electroantennogram	in India 476, 3033, 5710, 5711 nitrogen in, determination of 1814	on rice, not surviving 5507 parasites of, in Argentina 5507
responses to 686	on castor	Acigona steniellus
on rubber septa, half-life of 4171	damage caused by 3033	parasitised by
with (Z)-9-dodecenyl acetate	feeding by 2505	Apanteles diatracae 6307
attractant for Eupoecilia ambiguella 3988, 3989	in Maĥarashtra 5710 in Rajasthan 5711	A. sesamiae 6307 acinaciformis, Coptotermes
Euxoa tristicula 686	parasites of, not affected by Nomuraea	Acinopterus angulatus, peach X-disease,
with (Z)-11-tetradecenyl acetate	rileyi 1031	causal agent in, transmission of 2101
attractant for	parasitised by <i>Microplitis maculipennis,</i> in India	Acleris gloverana adult behaviour in, diel variation in 357
Aphelia paleana 3235 Archips podanus 3235	3033	in Canada 3575
A. xylosteanus 3235	Telenomus spp., in Gujarat 476	sex pheromone of, variation in responses
Argyrotaenia pulchellana 3235	T. proditor 1031	to 3575
Discestra trifolii 3235 Eupoecilia angustana 3235	Trichogramma achaeae, in Gujarat 476	Acleris tripunctana biology of 1575
Mamestra brassicae 3235	T. australicum, in Gujarat 476	food-plants of 1575
Tortrix viridana 3235	Trichogrammatoidea prabhakeri 2169	in West Germany 1575, 1576
Zygaena ephialtes 3235	Trissolcus spp., in Gujarat 476	on Betula, in West Germany 1576
with (E)-11-tetradecenyl acetate, and (Z)-11-tetradecenyl acetate	preyed on by, birds, in India 3033 Achaea lienardi	parasites of, in West Germany 1575, 1576
attractant for	in Ghana 5358	population dynamics of 1576
Aphelia paleana 3235	nuisance caused by 5358	Acleris variana, EPPO data sheet on 3189
Archips podanus 3235	achaeae, Trichogramma	acletus, Scapteriscus
A. xylosteanus 3235 Argyrotaenia pulchellana 3235		Acmaeodera in Central America 4306
Discestra trifolii 3235		in North America 4306

Acmaeoderini	Acrolepia alliella, sex pheromone of, identity	Actinidia chinensis
in Palaearctic region 1305 taxonomy of 1305	of 2692 Acrolepia assectella (see Acrolepiopsis	Eupulvinaria hydrangeae on, in New Zealand 160
Acmopolynema hervali	assectella)	Hemiberlesia rapax on, in New Zealand
host diapause as affecting 1375	Acrolepiopsis assectella	5888
in Brazil 1375	attractants for 3030	pest control on, insecticides for 5883
parasitising, <i>Mahanarva posticata</i> , in Brazil 1375	biology of 470, 6548 control of 6548	Actinomycetales, in, soil, effects of insecticides on 2141
Acorus calamus	biological 470	Actinomycin D (see Dactinomycin)
insecticidal activity of extracts of 859	cultural 3031	Aculeata, in North America, book 3310
insecticidal activity of extracts of rhizomes	insecticides for 470	aculeatum, Tetramorium (Macromischoides
of 1675, 2138	timing of 3030	aculeatus, Haplothrips
Acotyledon absoloni (see Caloglyphus	in France 470, 3030, 3031, 5698, 6548 mating in 1265	aculeatus, Macromischoides (see Tetramorium aculeatum)
absoloni) acraea, Estigmene	on garlic, in France 6548	Aculops berochensis
Acraspis hirta	on leek	descriptions of 5075
in USA 526	assessing infestations of 3030	in West Germany 5075
on Quercus prinus, in New Jersey 526	damage caused by 470, 3031	on Prunus, in West Germany 5075
parasitised by, Chalcidoidea, in New	effects on reproduction of 5698	Aculops lycopersici
Jersey 526 Acrida exaltata	in France 6548 on onion, in France 6548	biology of 4596 in Egypt 4596
hemocytes in 4747	oviposition in, effects of leek volatiles on	on tomato, damage caused by 4596
in India 4747	2499	preyed on by
Acridencyrtus, gen. nov., description of	parasitised by	Pronematus ubiquitus, in Egypt 4596
4447	Diadromus collaris 6049	Scolothrips sexmaculatus, in Egypt
sp. nov., description of 4447	D. pulchellus 6049 rearing of, diets for 501	4596 Aculus cornutus
in Bangladesh 4447	reproduction in 4254	control of, acaricides for 3997
in India 4447	traps for 6548	demeton-S-methyl resistance in, in New
parasitising	Acromyrmex	Zealand 3997
Chrysopa spp., in Karnataka 4447 Rastrococcus mangiferae, in Bangladesh	control of, baits for 4430	descriptions of 6475 dimethoate resistance in, in New Zealand
4447	identification in field of 3839	3997
Acrididae	in Paraguay 3839, 4430 pest status of 3839	distribution of 6475
control of, insecticides for 6424	research on, funded by UK 6002	in New Zealand 3997
in Anhwei Province 238 in Canada 2314	Acromyrmex crassispinus	in Venezuela 6475 on nectarine, in New Zealand 3997
in Fennoscandia 139	foraging trails of 2804	on peach, in Venezuela 6475
in Kazakhstan 4956	in Paraguay 2804	Aculus fockeui
in Thailand 2320	Acromyrmex heyeri	descriptions of 5075
in Upper Volta 6284 in arid grassland	foraging trails of 2804 in Paraguay 2804	in West Germany 5075 on <i>Prunus</i> , in West Germany 5075
communities of 4523	Acromyrmex landolti fracticornis	Aculus schlechtendali
resource utilisation by 4523	foraging trails of 2804	biology of 388
in deciduous forests, in USSR 2799	in Paraguay 2804 Acromyrmex laticeps	control of 359 acaricides for 376
in forest-steppe, in USSR 2799 in steppe, in USSR 2799	foraging trails of 2804	descriptions of 388
migration in 5912	in Paraguay 2804	in Bulgaria 388
on grasses, damage caused by 1421	Acromyrmex lundii pubescens	in Canada 359
on rice, in Bangladesh 6424 ovaries in, interpreting state of 170	foraging trails of 2804 in Paraguay 2804	in USA 376, 4552 on apple
Acridinae, flight capacity of, biogeographical	Acromyrmex octospinosus	in Bulgaria 388
patterns in 2797	aggression in 1333, 1334	in Massachusetts 4552
Acridoidea	competing with, Atta cephalotes 1333	in New York 376
chorion in 5457 Entomophthora grylli in, in USSR 1123	Dufour's glands in, volatile compounds in 4235	in Quebec 359 predators of, effects of pesticides on 37
in Angola 234	food reserves in 1874	Aculus trifolii
in Spain 3833	in Trinidad and Tobago 1333, 1334	sp. nov., description of 6440
Acrobasis nuxvorella in USA 373	territorial pheromone in 2694	in Bulgaria 6440
on pecan, damage caused by 373	Acromyrmex rugosus rugosus foraging trails of 2804	on Trifolium pratense, in Bulgaria 6440 acuminata, Aelia
traps for 373	in Paraguay 2804	acuminata, Kilifia
Acrocercops	Acronicta, parasites of, in England 4100	acuminata, Melanophila
on cinnamon, in India 281 on Vigna radiata, in West Malaysia 431	Acronicta alni, in Italy 6125 Acronicta rumicis	acuminatus, Ips acuta, Leptocorisa
Acrocercops caeruleus	diapause in 2238	acuticlavus, Steneotarsonemus
in India 6581	effects of photoperiod on 2716	acutus, Scaphytopius
in Uganda 6581	neurosecretion in, effects of photoperiod on 3773	Acyltransferase, triacylglycerol, in Ceratiti
on coffee, in Tamil Nadu 6581 parasites of, in Tamil Nadu 6581	photoperiodism in 2238, 5380	capitata 5346 Acyrthosiphon
Acrocercops cramerella	Acropiesta flaviventris, in Poland 3602	predation of 2817
biology of 408	Acrosternum hilare	preyed on by, Chrysopa rufilabris 4245
control of, insecticides for 408 in India 408, 2449	control of, insecticides for 4586 in USA 1484, 2415, 3526, 4586	Acyrthosiphon dirhodum (see Metopolophium dirhodum)
on Litchi chinensis	on soyabean	Acyrthosiphon kondoi
in Bihar 408	damage caused by 456	alfalfa mosaic virus in, transmission of
in Uttar Pradesh 2449	in Louisiana 4586	5049
Acrocercops phaeospora control of, insecticides for 2459	in USA 1484 varietal preferences of 3526	biology of 1956 control of 4539
in India 2459	parasites of, in Kentucky 2415	biological 5951
on Eugenia jambolana, in Uttar Pradesh	parathion-methyl in, developmental	cultural 5881
2459	changes in susceptibility to 4586	economics of 1954
Acrocercops plebeia biology of 4086	predators of, in Kentucky 2415 Telenomus podisi not parasitising 6200	insecticides for 1954, 1956, 5049, 5881, 6437
on Acacia 4086	Acrylic acid (see 2-Propenoic acid)	Entomophthora spp. in
Acrocercops syngramma	Acrylonitrile (see 2-Propenenitrile)	in New South Wales 6437
in India 946 on cashew, damage caused by 946	Actellic (see Pirimiphos-methyl)	in New Zealand 5880
Acrocercops telestis 281	Actenodes, in North America 1583 Actenodes davidi	E. aphidis in, in New Zealand 2042 E. ignobilis in, in New Zealand 2042
Acrocercops zamenopus	sp. nov., description of 1583	food-plants of 930
in Indonesia 6581 on coffee, in Java 6581	in USA 1583 on Gleditsia triacanthos, in USA 1583	fungi in, in Tasmania 1956
on conice, in Java UJa1	On Oleunsia macammos, in USA 1383	HADELDALASHES OF THE PADAL 1470

cyrthosiphon kondoi contd.	Acyrthosiphon pisum contd.	Adelphocoris lineolatus contd.
in Australia 1954, 1956, 4539, 5416,	on lucerne contd.	in USSR 174, 5714
5951, 6437	varietal preferences of 5882	on cotton, in Tadzhikistan 5714
in Japan 1426 in New Zealand 2042, 5049, 5879, 5880,	on pea, damage caused by 4584 on Trifolium, in New Zealand 4584	on lucerne, assessing infestations of 174
5881	on Vicia, in Oklahoma 3343	on sunflower, damage caused by 6558 Adelphocoris rapidus
in USA 1002, 4537	on Vicia faba, in New Zealand 4584	in USA 2855
natural enemies of, in Tasmania 5416	overwintering in 4584	on Solidago, in New York 2855
on lucerne	parasites of, in Japan 1426	Ademon, in Hungary 3311
damage caused by 5879	parasitised by, Aphidius smithi 29, 1879,	Adenosine
effects of grazing on 5881 in Japan 1426	2824, 4995, 5478	Spodoptera exempta feeding responses to
in Mississippi 4537	parthenogenesis in 4816 pea enation mosaic virus in	5338
in New South Wales 1954	not transmitted 4583	cyclic 3',5'-(hydrogen phosphate) in <i>Drosophila melanogaster</i> , not
in New Zealand 5049, 5880	transmission of 4583	inducing morphogenesis in imagina
in Tasmania 1956, 5416	population dynamics of 5880	disks 3278
in Western Australia 4539 resistance to 3452, 3453	predation of 3521	in Galleria mellonella, effects on
varietal preferences of 6434, 6437	predators of escape from 1262	prothoracic glands of 6085
on Medicago, varietal preferences of 931,	escape responses to 6110	in Hyalophora cecropia, triggering
6437	prey detection by 6318	eclosion behaviour patterns 3741
on Medicago hispida, in Japan 1426	preyed on by	in insects, role in muscle pharmacolog
on Melilotus officinalis, in Japan 1426	Coccinella californica 1262, 1506	of 4774
on pasture legumes, damage caused by 930	C. septempunctata 3521, 6318	in Locusta migratoria effects on Malpighian tubules of
on squash, in California 1002	Metasyrphus corollae 843, 3521 seasonal abundance of 5879, 5880	5337
on Trifolium pratense, in Japan 1426	thiotepa in, effects of 4818, 4820	reversing canavanine inhibition of
on Trifolium repens, in Japan 1426	Acyrthosiphon solani (see Aulacorthum	fluid secretion in Malpighian
parasites of	solani)	tubules 4773
in Japan 1426	Adalia bipunctata	in Locusta migratoria fat-body, effects
in Tasmania 1956 population dynamics of 5880	in Canada 2635 in UK 4998, 5156	of adipokinetic hormone on 2713 in <i>Manduca sexta</i> nerve cord, effects o
predators of	in USSR 3376	putative neurotransmitters on 751
effects of insecticides on 6725	overwintering in 2733	in Mythimna separata, stimulating
in Tasmania 1956	preying on	melanisation 1219
preyed on by, Coccinellidae, in New	Eucallipterus tiliae	in Tenebrio molitor, induction by
South Wales 6437	in UK 5156	bursicon of 746
seasonal abundance of 1002, 4537, 5879,	model 6591	Adenosine 5'-(tetrahydrogen triphosphate)
vatermelon mosaic virus 1 in,	grain aphids, in Kazakhstan 3376 pyrethroids in, toxicity of 2635	diet component for, Lixophaga diatraeae
transmission of 1002	Adelges isedakii	in Drosophila melanogaster larvae,
watermelon mosaic virus 2 in,	sp. nov., description of 1559	developmental changes in 4755
transmission of 1002	in Japan 1559	in Pieris brassicae larvae, developmental
cyrthosiphon lambersi, in USSR 801	on Larix, in Japan 1559	changes in 4755
cyrthosiphon pisum	on Picea, in Japan 1559	Adenylate cyclase (see Cyclase, adenylate)
alarm pheromone of, escape responses to	Adelges japonicus	Adenylate kinase (see Kinase
6110 alfalfa mosaic virus in, transmission of	biology of 1559 in Japan 1559	(phosphorylating), adenylate) Adialytus
3005, 5049	Adelges karamatsu	hosts of 1765
caudal hair form of	biology of 1559	taxonomy of, characters distinguishing
artificial selection for 4816	in Japan 1559	Diaeretiella and 2765
selection for 6044	Adelges laricis	Adialytus arvicola
control of	in USA 1083	in India 2765
biological 3343, 4174 insecticides for 653, 3796, 5049, 5959	on Larix, in Idaho 1083 on Picea, in Idaho 1083	parasitising Sipha maydis
dispersal of, effects of predators on 1506	Adelges pectinatae	in Himachal Pradesh 2765
energy budget of 4031	biology of 1559	in Jammu and Kashmir 2765
effects of parasitism on 4995	in Japan 1559	Adialytus balticus
Entomophthora spp. in, in New Zealand	on Abies mariesii, in Japan 1559	sp. nov., description of 1765
5880	on Abies veitchii, in Japan 1559	in USSR 1765
E. obscura in	Adelges piceae	parasitising, Dysaphis anthrisci, in
pathogenicity of 4136 strain differences in 1635	control of, biological 6636 in Canada 6636	Lithuania 1765 Adialytus salicaphis
food budget of, effects of parasitism on	on Abies, in British Columbia 6636	in India 2765
1879	Adelges todomatsui	parasitising, Chaitophorus spp., in Jamm
hyperparasites of, avoidance of parasitism	biology of 1559	and Kashmir 2765
in 2824	in Japan 1559	Adina racemosa (wood), Coptotermes
hyperparasitised by Alloxysta megourae 5478	on Abies veitchii, in Japan 1559	formosanus in, resistance to, mechanism of 1356
Dendrocerus carpenteri 2824	Adelgidae identification tables for 3611	Adipokinetic hormones
in Canada 357, 1262, 4535, 4536	on conifers, in France 3611	in Locusta, inhibiting protein synthesis in
in Chile 4174	preyed on by, Laricobius spp., in North	fat-body 1793
in Japan 1426	America 4200	in Schistocerca gregaria corpora cardiaca
in Mexico 2307	adeli, Zaomma (see Z. lambinus)	1792
in New Zealand 160, 1504, 4584, 5049,	Adelidae, in Poland 3246	Adisura atkinsoni
5879, 5880 in Switzerland 5959	Adelina tribolii	control of biological 426
in USA 3343	Tribolium confusum, effects of 1618	insecticides for 426
insecticide susceptibility in, effects of plant	T. destructor, effects of 1618	in India 426, 440
components on 3796	adelpha, Diabrotica	on Lablab purpureus, in Karnataka 426
intracellular symbionts in 5435	Adelphe, parasitising, Phasmatidae, in North	on Vigna radiata, in India 440
legume yellows virus in, transmission of	America 6317	admirabilis, Syrbula
3003 lethal temperatures for 1262	adelphocoridis, Peristenus	adoceta, Cryptoblabes Adonia variegata (see Hippodamia
lethal temperatures for 1262 migration in 4535, 4536	Adelphocoris on Solidago, in New York 2855	variegata)
on forage crops, in New Zealand 160	parasitised by	Adoretus simplex
on lucerne	Peristenus adelphocoridis	in India 2436
damage caused by 357, 2307, 5879	in Denmark 5578	on fruit trees, in Himachal Pradesh 243
in Japan 1426 Angles	in France 5578	Adoxophyes
in New Zealand 4584, 5049, 5880	Adelphocoris lineolatus	attractants for 5274
in Oklahoma 3343	control of 5714 biological 5578	control of, traps for 6584 on tea, in Japan 3056, 6584
in Ontario 4535, 4536	in Dulconia 6550	parasites of in Japan 3056

```
Afghanistan contd.
 Adoxophyes contd.
                                                                                                                           Aelia acuminata
                                                                                                                                diapause in 3762
in Greece 3367, 5520
in Spain 3366
       sex pheromones of, minor components of
                                                                                                                                                                                                                                                            Vespidae in 3788
                                                                                                                                                                                                                                                      Aflatoxins
               1730
 Adoxophyes fasciata (see A. orana fasciata)
                                                                                                                                                                                                                                                           in Drosophila melanogaster, toxicity of
                                                                                                                                 oviposition in 3762
 Adoxophyes orana
       control of
                                                                                                                                 photoperiodism in 3762
                                                                                                                                                                                                                                                           in Oncopeltus fasciatus, toxicity of, sex
      insecticides for 1456
timing of 4701
food-plants of 5068
                                                                                                                           Aelia germari, in Spain 3366
Aelia rostrata
                                                                                                                                                                                                                                                                   differences in 6678
                                                                                                                                                                                                                                                      Africa
                                                                                                                                control of, insecticides for 3366 in Greece 3367, 5520 in Spain 3366
                                                                                                                                                                                                                                                           Anomaloninae in 4460
Clavigrallini in 698
      genome in, properties of
in Austria 1756
in Bulgaria 1454, 1455
                                                                      1788
                                                                                                                                                                                                                                                           Dermaptera in, book 3243
                                                                                                                           outbreaks of 3366
parasites of, in Spain 3366
Aeluropus littoralis, Porphyrophora hamelii
on, in Armenia 2847
                                                                                                                                                                                                                                                      Africa, East, agricultural entomology in
       in Italy 209
                                                                                                                                                                                                                                                              2653
                                                                                                                                                                                                                                                     Africa, West, locust control in 5900 africana, Gryllotalpa africana, Neocypholaelaps africanus, Rubroscirus
       in Netherlands 4701
      in Poland 3477
                                                                                                                           aemula, Argyope
aenea, Linaeidea
aeneipennis, Scymnus (see Zagloba
      in Switzerland 1456
      in West Germany 1576
in Yugoslavia 5068, 5793
                                                                                                                                                                                                                                                      Afrotropical region (see Ethiopian region)
                                                                                                                                    aeneipennis)
      nuclear polyhedrosis virus in activation of 5849
                                                                                                                                                                                                                                                      Agallia constricta
                                                                                                                            aeneipennis, Zagloba (Scymnus)
                                                                                                                                                                                                                                                           in USA 1945
                                                                                                                            Aeneolamia
            DNA in 4683
                                                                                                                                                                                                                                                           on Festuca arundinacea, in Missouri
                                                                                                                                 on Cenchrus ciliaris, damage caused by
                                                                                                                                                                                                                                                                   1945
       on apple
                                                                                                                                         2308
            damage caused by 1455 forecasting infestations of 4701
                                                                                                                                 on Panicum maximum, damage caused by 2308
                                                                                                                                                                                                                                                      Agaonidae
                                                                                                                                                                                                                                                           in Trinidad 2768
      forecasting infestations of 4701 in Austria 1756 in Bulgaria 1454 in Poland 3477 in Switzerland 1456 on Betula, in West Germany 1576 on fruit trees, in Yugoslavia 5068 on Quercus borealis, in Yugoslavia 5793 population dynamics of 1576 seasonal abundance of 1454 traps for 4701
                                                                                                                           Aeneolamia varia
control of, cultural 6432
in Colombia 6432
in pastures, in Colombia 6432
                                                                                                                                                                                                                                                           on Ficus, coevolution of 4001
                                                                                                                                                                                                                                                           bait component for, Pheidole dentata
4499
                                                                                                                                                                                                                                                          4499
diet component for
Bactra spp. 3871
Bradysia agrestis 1557
Cryphalus populi 2589
Dichocrocis punctiferalis 4
Mamestra brassicae 6143
Mythimna separata 6143
Rhynchophorus ferrugineus
Spodoptera littoralis 5717
Trichoplusia ni 5427
                                                                                                                                 Metarhizium anisopliae in, in Colombia
                                                                                                                                         6432
                                                                                                                                 on Brachiaria decumbens, damage caused
                                                                                                                                          by 6432
                                                                                                                           aenescens, Onthophagus
Aenetus virescens
 traps for 4701

Adoxophyes orana fasciata
attractants for 739
in Japan 739
rearing of, diets for 4878
                                                                                                                                 in New Zealand 4104
                                                                                                                            in wood, in New Zealand 4104
aeneus, Chalcodermus
aeneus, Meligethes
rearing of, diets for 4878 sex pheromone of, components of 739 Adoxophyes reticulana (see A. orana) adoxophyesi, Apanteles adoxophyesi, Bracon Adraga, in New Guinea 6625 Adrasteia proximella (see Teleiodes proximella) adspessa Enicapta.
                                                                                                                           aeneus, Mengetnes
Aenictini, zoogeography of, phylogenetic
implications of 1332
Aeoloplides turnbulli turnbulli
in Canada 2314
taxonomy of 2314
Aeolothrips fasciatus
in China 315
in Cyprus 5078
in citrus groves, in Cyprus 5078
                                                                                                                                                                                                                                                     in Lymantria dispar diet, effects on virus production of 4935

Agaricus bisporus (see Mushroom)

Agaricus bitorquis insect pests of, in Taiwan 2991 pest control on 2991

Agaricus diag anterior brush occans in 2603
                                                                                                                                                                                                                                                     pest control on 2991
Agaristidae, anterior brush organs in 2693
Agarose, diet component for, Lixophaga diatraeae 1316
Agathidinae, venom apparatus in 2672
Agathis aciculatus
in Ghana 2552
parasitisina Paris hickenia (2)
proximella)
adspersa, Epicauta
adspersus, Cylindrocopturus
adspersus, Leander (see Palaemon
adspersus)
adspersus, Palaemon (Leander)
advena, Ahasverus
                                                                                                                          in cyprus 5078
in citrus groves, in Cyprus 5078
in maize fields, in China 315

Aeolothrips gloriosus
in Cyprus 5078
in citrus groves, in Cyprus 5078
aequale, Camptozygum
aequalis, Heterobostrychus
aequinistilis Rhizotropus
 advena, Attustor....

Aedes aegypti

Chilo iridescent virus in, cell fusion
caused by 5232
                                                                                                                                                                                                                                                           parasitising, Earias biplaga, in Ghana
                                                                                                                                                                                                                                                                    2552
                                                                                                                                                                                                                                                     Agathis albicostellae
in Italy 848
parasitising, Chrysoesthia sexguttella, in
Italy 848
                                                                                                                            aequinoctialis, Rhizotrogus

Aerobacter aerogenes, in, Boarmia selenaria,
pathogenicity of 6479
control of
growth regulators for 2644
insecticides for 639, 2627
vitellogenesis in, regulation of 4780

Aedes albopictus
Chilo iridescent virus in, cell fusion
caused by 5232
iridescent virus in, replication of 4137
aedilis, Acanthocinus
Aegilops aucheri, Meromyza nigriventris on,
resistance to 5022
Aegilops caudata, Meromyza nigriventris on
5022
Aegilops cylindrica Meromyza virus
                                                                                                                         pathogenicity of 6479

Aerochoreutes carlinianus carlinianus
in Canada 2314

Aeroglyphus robustus, in wheat grain,
damage caused by 4120

Aeropedellus clavatus
control of, biological 929
in Canada 929
in Canada 929
in pastures, in Saskatchewan 929

aeruginosa, Polyspilota

Aesculus hippocastanum, phenology of,
correlation of Agromyza frontella
development and 4884

aestivaria, Hemithes
                                                                                                                                                                                                                                                      Agathis annulipes
in Canada 1593
                                                                                                                                                                                                                                                           parasitising, Choristoneura conflictana, in
Alberta 1593
                                                                                                                                                                                                                                                     Alberta 1593

Agathis meridionellae
in Italy 848
                                                                                                                                                                                                                                                     in Italy 848
parasitising, Chrysoesthia sexguttella, in Italy 848
Agathis pumila, rearing of 530
Agathis stigmatera
in Colombia 3940
 Aegilops cylindrica, Meromyza nigriventris
on, resistance to 5022
                                                                                                                                                                                                                                                           parasitising, Diatraea saccharalis, in
Colombia 3940
                                                                                                                          development and 4884
aestivaria, Hemithea
Aestivaria, Hemithea
Aestivarion, review 5430
aethiops, Caliroa (see Endelomyia aethiops)
aethiops, Endelomyia (Caliroa)
aethiops, Enoclerus
aethiops, Leptura (Strangalia)
aethiops, Strangalia (see Leptura aethiops)
affaber, Dryocoetes
affinis, Chrysobothris
affinis, Cryphula
affinis, Cryphula
affinis, Harpalus
affinis, Pempherulus
affinis, Vropbora
Afforestation
ants as affected by 132
                                                                                                                                                                                                                                                     Agathis unicolorata
biology of 2339
parasitising, Phthorimaea operculella
 Aegilops mutica, Meromyza nigriventris on 5022
Aegilops speltoides, Meromyza nigriventris
on, resistance to 5022
Aegilops tauschii, Meromyza nigriventris on,
resistance to 5022
Aegilops vavilovii, Meromyza nigriventris
on, resistance to 5022
Aegle marmelos, antifeedant activity of
extracts of 4371
                                                                                                                                                                                                                                                                   2339
                                                                                                                                                                                                                                                     Agelaius phoeniceus, Lymantria dispar
nuclear polyhedrosis virus in, passage
through gut of 1568
Ageneotettix deorum
control of, insecticides for 5980
in USA 5980
Ageniaspis avetianae
in USSR 1185
extracts of 45/1
aegopoti, Cavariella
aegypti, Aedes
aegyptiaca, Eupalopsis
aegyptiaca, Icerya
aegyptium, Neophyllobius
Aegyptocheyla summersi
                                                                                                                                                                                                                                                     taxonomy of, characters distinguishing A. nigricollis and 1185

Ageniaspis fuscicollis
in Finland 3569
       gen. et sp. nov., description of 2048 in Egypt 2048
                                                                                                                                 ants as affected by 132 soil invertebrates as affected by 5758
                                                                                                                                                                                                                                                           parasitising, Yponomeuta evonymellus, in
Finland 3569
                                                                                                                                                                                                                                                     Ageniaspis nigricollis
sp. nov., description of 1185
in USSR 1185
Ageratum, Tetranychus piercei on, in
Taiwan 705
       preying on, Tetranychus urticae, in Egypt
                                                                                                                                 Cicer in, pests of 5678
                                                                                                                                 cotton in, pest control on 3046
Dialeurodes citri in, on Citrus 2968
Phyllocnistis citrella in, on Citrus 2968
  Aelia
       on wheat, in Iran 3365
parasites of, alternative hosts of 3370
```

ojeci macx		87
geratum houstonianum, insect juvenile	Agriotes contd.	Agrotis exclamationis
hormone inhibitors in 1716	on maize contd.	bacteria in, in Poland 1864
glutinins, receptors in insects for 6335	in UK 218	control of
gregation disruption	in West Germany 1926	biological 2613
against	on pasture plants, in UK 5575	timing of 106
Dendroctonus frontalis 539, 3590	on potato	flight activity in 106
D. pseudotsugae 2596	on potato in France 3811 in Italy 1022	in Poland 1864
D. rufipennis 5738	in Italy 1022	in Romania 106
Ips paraconfusus 555	on sugar-beet, in Europe 1523	viruses in, in Poland 1864
Î. pîni 1571	on wheat, in Hungary 2868	Agrotis fucosa
gregation pheromones	transpiration in 1959	in Japan 4835
Cryptolestes ferrugineus 2198	Agriotes sputator	mating in 4835
Dendroctonus jeffreyi 522	control of, insecticides for 1711	Agrotis gladiaria, bibliography 3826
Dryocoetes autographus 2175	in Yugoslavia 2869	Agrotis ipsilon
D. hectographus 2175	on wheat, in Yugoslavia 2869	attractants for 2691
Ips cembrae 4238	Agriotes ustulatus	bibliography 3826
I. paraconfusus 1728, 2199	in Yugoslavia 2869	biology of 68, 307
I. pini 1728	on wheat, in Yugoslavia 2869	control of
Leperisinus californicus 5204	Agriotina, in USSR 11	baits for 876
L. fraxini 549	Agritox (see Trichloronate)	biological 3890
Lygaeus kalmii 4237	Agromyza frontella	insecticides for 2536, 4900, 4929, 61
Nezara viridula 6109	control of, biological 2927, 2928, 4902,	development in, effects of larval density
Oncopeltus fasciatus 4237	5579	on 1250
Onychiurus armatus 3745	development in	feeding behaviour in 876
Tribolium castaneum 1223	correlation of plant phenologies and	food-plants of 68
T. confusum 1223 Xyloterus lineatus 4097	4884	in Bulgaria 68
	effects of temperature on 4884	in Colombia 1025
gilis, Mesochorus Gilis, Parasetigena	emergence in, models of 4921 feeding behaviour in 4901	in Egypt 933, 1013, 2500, 4332, 5721 in India 2337, 2551
ging, Drosophila melanogaster 4750	in Canada 2927, 5050	in Japan 1208, 4287
gistemus fleschneri	in USA 2927, 2928, 4884, 4902, 4921,	in Kenya 1541
in USA 954	5579	in Spain 3388
in apple orchards, in Iowa 954	in Yugoslavia 6433	in USA 307, 2691, 3379, 4900, 4929,
gonatopus, parasitising, rice hoppers, in	on lucerne	6168
Thailand 911	feeding by 4901	mating in, effects of dietary sugars on
gonoderus comma (see Stenolophus	fungi associated with 5050	1208
comma)	in Delaware 4902	migration in 4332
gonoscelis pubescens, parasitised by,	in Massachusetts 4884	nuclear polyhedrosis virus in,
Gryon antestiae 3055	in New York 4921	pathogenicity of 614
gonoscelis versicolor (see A. pubescens)	parasites of	on cassava, in Colombia 1025
gonoscena viridis	in Europe 2927	on hemp, in Bihar 2551
in Turkey 1310	in North America 2927	on maize
on Pistacia vera, in Turkey 1310	Agromyza nana, in Yugoslavia 6433	damage caused by 876, 1923
gonum dorsale	Agromyza oryzae in Japan 346	in Illinois 307
in UK 5025		in Indiana 3379
preying on, grain aphids, in England	on rice, in Japan 346	in Maryland 4900
5025	parasites of, in Japan 346	on rice, in Spain 3388
graensis, Anagyrus	Agromyza phaseoli (see Ophiomyia	on soyabean, in Egypt 1013
graulis vanillae vanillae, control of, insecticides for 407	phaseoli) Agromyzidae	on sunflower, in Kenya 1541 on tomato, in Egypt 2500
grestis, Atylotus	in grassland, in France 3432	on Trifolium, in Egypt 933
grestis, Bradysia	on Umbelliferae, diversity of 270	parasites of, in Indiana 3379
gria mamillata	agropyrella, Sipha (see S. elegans)	parasitised by, Microplitis similis, in Bih
in Finland 3569	agropyri, Steneotarsonemus	2337
parasitising, Yponomeuta evonymellus, in	Agropyron, Steneotarsonemus spp. on, in	pest status of 4287
Finland 3569	USSR 5019	pupation in 933
gria 1050 (see Fenitrothion)	Agropyron cristatum, cereal aphids on,	seasonal abundance of 1541, 5721
gria 1060 (see Phosalone)	survival and reproduction of 2358	sex pheromone of
gricultural development, Tachinidae as	Agropyron intermedium, cereal aphids on,	components of 2691
affected by 4991	survival and reproduction of 2358	receptors for 2691
gricultural ecology, book 2751	Agropyron repens, Bryobia cristata on, in	Agrotis orthogonia
gricultural soils, arthropods in, factors	UK 1451	control of, insecticides for 6167
affecting 2758	Agropyron smithii	in USA 6167
grilus arcuatus fulgens	Acrididae on, in Montana 1421	on wheat, in Kansas 6167
in USA 4311 on Corylus americana, in North Carolina	Aulocara elliotti on	Agrotis segetum bacteria in, in Poland 1864
4311	damage caused by 1940 development of 1244	control of
Agrilus bilineatus carpini, in Canada 4311	effects of plant growth regulators on	biological 626, 2613, 5249, 6531
grilus hyperici, on Hypericum perforatum,	4959	evaluating of 3810
and biological control using, in Montana	cereal aphids on, survival and	insecticides for 1554, 3810, 6531, 670
4479	reproduction of 2358	timing of 106
grilus olivaceoniger	Melanoplus infantilis on, damage caused	copper in, accumulation of 38
in USA 4311	by 1940	flight activity in 106
on Quercus ilicifolia, in New Jersey 4311	Agrostis, Ataenius spretulus on, in Ohio	in Bulgaria 1391
grilus pannonicus	6208	in Cape Verde 137
in Netherlands 533	Agrostis tenuis, Costelytra zealandica on,	in Denmark 6531
on Quercus robur, in Netherlands 533	damage caused by 5872	in Hungary 2868 in Kenya 1541
Agrilus viridis	Agrotinae	
control of 2791	on potato, damage caused by 3539	in Poland 1864
in USSR 2791	on sugar-beet, damage caused by 4041	in Romania 106 in USSR 626, 1554, 2818, 5249
Agriopis aurantiaria biology of 1452	Agrotis control of	in Yugoslavia 2869
control of 1452	biological 5952	in soil, sampling of 1391
descriptions of 1452	insecticides for 1052	larval development in 6097
descriptions of 1452 in Bulgaria 1452	flight activity in 5378	magnesium in, accumulation of 38
Agriotes	in Queensland 2671	manganese in, accumulation of 38
control of 1926	in Romania 5378	Nosema bombycis in, pathogenicity of
insecticides for 218, 1022, 2363, 3811	larval development in 3802	5241
in USSR 11	on cabbage, damage caused by 2005	on beetroot, in Denmark 6531
on entomogenous fungi, in Scotland	on cassava 1023	on carrot, in Denmark 6531
3162	on lettuce, in Zambia 1052	on lettuce, assessing infestations of 381
on maize	on maize, in Zambia 1052	on potato, in Denmark 6531
damage caused by 2363	parasitised by, Apanteles ruficrus 6356	on sunflower, in Kenya 1541

```
Agrotis segetum contd.
on tobacco, in Moldavia 1554
                                                                                           L-Alanine contd.
                                                                                                                                                                                     Aldicarb contd.
                                                                                               in Leptinotarsa decemlineata flight
                                                                                                                                                                                          against
     on wheat
                                                                                                     muscles, accumulating during flight
                                                                                                                                                                                             Aleurocanthus woglumi, on Citrus
         in Hungary 2868
                                                                                                      3743
                                                                                                                                                                                                    3502
         in Yugoslavia 2869
                                                                                               in Locusta migratoria flight muscles,
                                                                                                                                                                                              Amrasca biguttula, on potato 2494,
     parasites of, in Tadzhikistan 2818
                                                                                                     during flight 4228
                                                                                                                                                                                                    2495
    rearing of, techniques for 4317, 6097 seasonal abundance of 1541
                                                                                               in rice, role in susceptibility to
                                                                                                                                                                                             A. devastans, on cotton 2038, 2543,
                                                                                              Nilaparvata lugens of 915
in Spodoptera littoralis, effects of
insecticides on 4362, 4363
                                                                                                                                                                                                    3038
     viruses in, in Poland 1864
                                                                                                                                                                                             Aphis fabae, on sugar-beet 4. A. gossypii, on cotton 3038
Agrotis spinifera
in Egypt 5721
in Spain 3388
                                                                                               in Spodoptera littoralis hemolymph, not affected by DDT 3818
                                                                                                                                                                                              Atherigona soccata, on sorghum 2404
                                                                                                                                                                                              Bemisia tabaci
     on rice, in Spain 3388
                                                                                                Nilaparvata lugens feeding responses to
                                                                                                                                                                                                  on cotton 2038
     seasonal abundance of 5721
                                                                                                     3413
                                                                                                                                                                                                  on tomato 471
                                                                                                                                                                                              Caliothrips indicus, on potato 2494
Agrotis venerabilis
                                                                                           Alarm pheromones
    attractants for 471
bibliography 3826
                                                                                               Acyrthosiphon pisum
                                                                                                                                                                                              Chilo partellus, on sorghum 5573
                                 4716
                                                                                                                                        6110
                                                                                                                                                                                             Cinara cupressi, on Cupressus 107
Coccus viridis, on mandarin 5634
Earias insulana, on cotton 2543
E. vittella, on cotton 2543
                                                                                               Elasmucha grisea 2058
    control of, mating disruption for 4716 in Canada 4716
                                                                                               Iridomyrmex pruinosus 1723
                                                                                                Myzus persicae, use in control of 5654
                                                                                               Oecophylla longinoda 46, 47
Oncopeltus fasciatus 4237
 Agrypninae, taxonomy of 699
                                                                                                                                                                                              Frankliniella spp., on cotton
Agrypon anale
                                                                                                                                                                                             Lipaphis erysimi, on rape 1999

Magicicada spp., on apple 3470

Myllocerus undecimpustulatus 6565
    in USA 2568
                                                                                                Tyrophagus putrescentiae
    parasitising, Malacosoma disstria, in
Minnesota 2568
                                                                                               Dendroctonus rufipennis in, on Picea
Agrypon flaveolatum
in USSR 5391
                                                                                                     5738
                                                                                                                                                                                              Myzus persicae
                                                                                                                                                                                                 on Capsicum 5118
on potato 219, 2024, 2494, 2495,
3016, 3538, 4936, 6233
on sugar-beet 464
                                                                                                Dryocoetes affaber in, on Picea 5738
    parasitising, Operophtera fagata, in
Lithuania 5391
                                                                                               Ips tridens in, on Picea 5738
Philodromidae in 2816
Agrypon flexorium, in USSR 5391
aguacatae, Conotrachelus
Ahasverus advena
control of
                                                                                                Polygraphus rufipennis in, on Picea
                                                                                               Psallus betuleti in, on Betula
                                                                                                                                                                                              Neoaliturus tenellus, on Citrus 5630
Nesidiocoris tenuis 6573
                                                                                               Psylla palmeni in, on Salix 513
                                                                                               P. phlebophyllae in, on Salix
                                                                                                                                                                                              Ostrinia nubilalis, on potato 6537
    fumigants for 6646
insecticides for 3679, 4125
in Canada 4668
in Nigeria 6645, 6646
in UK 4660
in USA 3679, 4125, 6170
                                                                                                                                                      513
                                                                                               Rheumaptera hastata in, on Betula
Thomisidae in 2816
                                                                                                                                                                                              Pectinophora gossypiella, on cotton
                                                                                                                                                                                                    2543
                                                                                           alaskensis, Pikonema
                                                                                                                                                                                              Pegomya hyoscyami, on sugar-beet
                                                                                           alba, Polyphylla
alba, Pseudosinella
                                                                                                                                                                                                    464
                                                                                                                                                                                              Pempherulus affinis, on cotton 2537
                                                                                           Albania, Tachinidae in 4989
                                                                                                                                                                                              pests of coconut 6445
     in cacao beans, in Nigeria 6645, 6646
                                                                                                                                                                                              pests of cotton 2513
     in maize grain
                                                                                           Alberta
    in Kansas 4125
in Minnesota 6170
in oil-palm kernels, in Nigeria 6645
in stored groundnuts, in Kansas 3679
                                                                                                                                                                                              pests of forage crops
                                                                                               Acyrthosiphon pisum in, on lucerne 357
                                                                                                                                                                                             pests of oil palm 6445
pests of okra 414
pests of sugar-beet 152
pests of tobacco 4609
                                                                                               Choristoneura conflictana in, natural enemies of 1593
                                                                                         enemies of 1593
Euxoa tristicula in 686
Mamestra configurata in, on rape 4574
Phytocoris alpinus in, on Pinus 1067
Proteoteras willingana in, on Acer 1596
Tipula sacra in 6118
albicostellae, Agathis
albidipennis, Orius
albidimanus, Platycheirus
albifrons, Symmerista
albimanus, Platycheirus
albipennis, Euxoa
albipennis, Euxoa
albipennis, Eystole
albipennis, Trybliographa
albipilosa, Cerotainia
albipunctella, Raghuva
albistriga, Amsacta
Albizia ferruginea (wood), Coptotermes
formosanus in, resistance to 4465
Albizia lucida, Kerria lacca on, effects of
plant growth regulators on 2345
albiografat, Thers
albonigrata, Thers
albonigrata, Thers
albopilosa, Anomala
albopulosa, Conicobruchus
                                                                                               Euxoa tristicula in 686
                                                                                                                                                                                                                                  1523, 5682
in wheat grain, interactions with other pests of 4668 ahngerianus, Anacanthotermes Aholcus, keys to 5473 aini, Rhynchaenus
                                                                                                                                                                                              Phyllocoptruta oleivora, on Citrus
5623
                                                                                                                                                                                             Polydesmus spp., on sugar-beet 6533
Recilia mica, on oil palm 2937
Spodoptera littoralis, on cotton 4385
Tetranychus cinnabarinus 6717
Thrips tabaci, on cotton 2038, 3038,
aini, Rhynchaenus
aino, Tipula
Aiolopus thalassinus
biology of 232
food-plants of 232
in Pakistan 232
in Turkey 1330
tegmina in, variation in veins in 1330
Air pollution
                                                                                                                                                                                         Viteus vitifoliae, on grapevine in Apis mellifera, toxicity of 678 in cauliflower, residues of 2003
 Air pollution
                                                                                                                                                                                          in coffee, not toxic 6578
    ants as affected by 126, 128

Araneus spp. as affected by 2831
                                                                                                                                                                                         in cotton-field soil, persistence of 2543
in cotton fields, effects on predatory
insects of 480
                                                                                                                                                                                         in Phytoseiulus persimilis, toxicity of 3812
 insecticide sprays from, effects of weather
on deposit patterns of 629
use in locust control of 5897
Airfields, termite control in 4463
                                                                                                                                                                                         in potato fields, non-target effects of 3538
Ajuga nipponensis, insect moulting hormones in 2844
                                                                                                                                                                                         in rice, not affecting germination 3905
                                                                                                                                                                                         in soil
 Akar (see Chlorobenzilate)

akebiae, Macrosiphum avenae (see Sitobion akebiae)
                                                                                                                                                                                             adsorption of 11 residues of 2003
                                                                                                                                                                                                                         1161
                                                                                                                                                                                         in sugar-beet fields, effects on predatory insects of 3823
 akebiae, Sitobion
                                                                                           albopilosa, Anomala
albopubens, Conicobruchus
                                                                                                                                                                                         in tobacco plantations, effects on
predatory insects of 4609, 4934
toxicology of 5682
with cattle-dung fertilizer, compatibility of
     Elasmopalpus lignosellus in, on groundnut
           463
                                                                                           albovittata, Epicauta
    Eudiagogus maryae in, on Sesbania
Microtheca ochroloma in 138
M. picea in 138
                                                                                           Albumins, in rape seeds, not affected by 
Ceutorhynchus napi 2994
                                                                                                                                                                                                3038
                                                                                            Albuna fraxini, attractants for 6212
                                                                                                                                                                                    with fertilizers 6233
with fungicides, against, pests and diseases
of Chrysanthemum 4613
with insect growth regulators 4385
Aldicarb sulfone (see Aldoxycarb)
Aldolase, fructose diphosphate, in
Heliocopris dillonii muscles 1795
Aldoxycarb (2-methyl-2-
(methylsulfonyl)propanal O-
[(methylamino)carbonyl]oxime)
against, pests of tobacco 4609
in tobacco planțations, effects on
predatory insects of 4609, 4934
Aldrex (see Aldrin)
aldrichi, Pleroneura
aldrichi, Sarcophaga
aldrichii, Medetera
                                                                                                                                                                                          with fertilizers 6233
                                                                                           albus, Aonidomytilus
Alcaeorrhynchus grandis, trail-following in
1288
 pecan in, pest control on 2932

Alabama
control of, biological 5125
on cotton, in Colombia 5125
Alabama argillacea
in Honduras 3557
on cotton, in Honduras 3557
                                                                                           Alcidion cereicola, on Eriocereus, and
biological control using, in Queensland
6337
                                                                                           alcocki, Anysis
Alcohol dehydrogenase (see Dehydrogenase,
alacris, Heterotrioza
alami, Anagyrus
Alanine aminotransferase (see
Aminotransferase, alanine)
                                                                                                 alcohol)
                                                                                           Alcohols, polyhydric, in Bombyx mori eggs
                                                                                           Aldenydes, in Niesthrea Iouisianica exocrine
secretions 4236
Alder, black (see Alnus glutinosa)
Aldicarb (2-methyl-1-2-(methylthio)propanal
    in Bombyx mori diet, absorption from
mid-gut of 6067
in Leptinotarsa decemlineata,
           accumulating during flight 730
                                                                                                 O-[(methylamino)carbonyl]oxime)
                                                                                                                                                                                     aldrichii, Medetera
```

ubject Index		879
ldrin ((1α,4α,4aβ,5α,8α,8aβ)-	Aleurocanthus woglumi contd.	Alfalfa mosaic virus contd.
1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-	on grapefruit contd.	in
hexahydro-1,4:5,8-dimethanonaphthalene)	in Florida 3502	Acyrthosiphon pisum, transmission of
against	on lemon, in Florida 4565	3005
Acromyrmex spp. 4430 Agraulis vanillae, on passion fruit 407	on mango, in Florida 1465, 4005 on Murraya paniculata, dispersal of 2975	lucerne, in New Zealand 5049
Anoplolepis longipes 243	on orange, in Florida 3502	tobacco, in North Carolina 3560 Vigna radiata, in Iran 3005
Atta spp. 4430	on Schinus terebinthifolius, in Florida	V. unguiculata, in Iran 3005
A. bisphaerica 189	4005	alfalfae, Austroasca
A. laevigata 5460	on sour orange, development of 3501	alfierii, Paederus
Carpomyia vesuviana 6477	oviposition in 2976	algarobilla, Sibinia
Coptotermes formosanus, in pine wood	models of 1465	Algeria
5487 Eriosoma lanigerum, on apple 5071	parasites of	Ectomyelois ceratoniae in 706
Eublemma amabilis 1350	effects of pesticides on 975	Nemapogon levantinus in 6026 Schistocerca gregaria in 1323
Heterotermes indicola, in pine wood	synchronous development of 2979	alienus, Psammotettix (see P. striatus)
5487	predators of, effects of pesticides on 975 traps for 980, 1987, 1988	Aliesterase (see Esterase, carboxyl)
Isoptera	Aleurodicus dispersus	aligarhensis, Anagyrus
in cable coverings 3147 on barley 1393	in USA 4280	Alkaline phosphatase (see Phosphatase,
Merodon equestris, on Narcissus 5139	thermal tolerance in 4280	alkaline) Alkaloids
Ophiomyia phaseoli, on Vigna	Aleuroglyphus ovatus, lipids in 3755	in Phalaris arundinacea, role in resistance
unguiculata 5671	Aleurolobus barodensis	to Oscinella frit of 924
Otiorhynchus sulcatus, on strawberry	in India 2352	in plants, poisoning of parasites of pests
215	on sugar-cane, in Uttar Pradesh 2352	by 1030
pests of cassava 1023 pests of Citrus 5626	parasites of, in Uttar Pradesh 2352 Aleurolobus marlatti	Alkanes
pests of Calius 3020 pests of Lolium 3439	control of, insecticides for 378	in Alphitobius diaperinus cuticle 4790 in Alphitophagus bifasciatus cuticle 4790
Phyllophaga spp., on maize 4506	in India 378	in Attagenus unicolor cuticle,
Spodoptera litura, on cauliflower 2473	on mulberry, in India 378	developmental changes in 40
determination of 6702	Aleuroplatus vaccinii	in Lasioderma serricorne cuticle 5331
in Acalymma vittatum, detoxification of 4158	in USA 2427	in Oecophylla longinoda venom 48
in Atta laevigata, effects on respiration of	on blueberry, in Florida 2427 Aleuropteryx juniperi	in Zootermopsis angusticollis cuticle 765 biosynthesis of 766
5460	in USA 2068	Alkenes
in cauliflower, persistence of 2473	preying on, Carulaspis minima, in	in Alphitophagus bifasciatus cuticle 4790
in Diabrotica, detoxification of 4158	Pennsylvania 2068	in Attagenus unicolor cuticle,
in groundnuts, residues of 3011	Aleurothrixus floccosus	developmental changes in 40
in maize, not translocated 2145	biology of 3494, 3495, 3496	in insects, locating of double bonds in
in Pennisetum americanum, not translocated 2145	control of biological 1652, 3493, 3494, 3495,	5422 Alkyd resins, in insect virus formulations
in pine wood, persistence of 5487	3497	6620
in soil	insecticides for 3493	Allantinae, in North America 1178
effects of root crops on 5680	in Mexico 1652	Allantoic acid (see Acetic acid,
persistence of 3896	in Spain 3493, 3494, 3495, 3496, 3497,	bis[(aminocarbonyl)amino]-)
residues of 1519, 2145, 3011	3498, 3499 in USA 4280	Allantoin (see Urea, (2,5-dioxo-4-imidazolidinyl)-)
in soyabean, residues of 1519 use of, restrictions on 464	on Citrus, assessing infestations of 3498,	Allantus cinctus
with malathion	3499	in USSR 6585
against, Tribolium castaneum 3220	on orange, in Spain 3494, 3495, 3496,	on Rosa, in USSR 6585
antagonistic 3220	3497	Alleculidae
deochara bilineata, parasitising, Delia	parasites of, effects of insecticides on	in eucalypt forests, in Victoria 5763
brassicae 5928	3493 thermal tolerance in 4280	in pine forests, in Victoria 5763 Allethrin (2-methyl-4-oxo-3-(2-propenyl)-2-
leocharinae, on prey food-plants, distribution pattern of 2594	Aleurotrachelus	cyclopenten-1-yl 2,2-dimethyl-3-(2-
letiae, Lespesia	on cassava, in Colombia 1025	methyl-1-propenyl)cyclopropanecarboxy-
leurocanthus husaini	taxonomy of, characters distinguishing	late)
in India 2449	Aleurotuba and 3565	in Periplaneta americana, effects of
on Litchi chinensis, in Uttar Pradesh	Aleurotrachelus jelinekii, taxonomy of,	temperature on susceptibility to 1235
2449 Lleurocanthus woglumi	transferred to Aleurotuba 3565 Aleurotuba, gen. nov., description of 3565	sunlight stability of 5261 $[1R-[1\alpha(S^*),3\beta]]$ -, radioimmunoassay for
control of	Aleurotuba jelinekii	5257
biological 1652, 2979, 3488, 4564	in Italy 3565	Alliaria petiolata
insecticides for 3502, 4564, 4566	on Viburnum tinus, in Italy 3565	glucosinolates in 282
integrated 975	taxonomy of, transferred from	Phyllotreta armoraciae on, not feeding 282
dispersal of 1465 EPPO data sheet on 4703	Aleyrodes brassicae	alliella, Acrolepia
flight activity in 1987	flight activity in 416	allii, Labopidea
food-plants of 4005, 4565	on mustard, development of 6117	Allium
selecting of 1465	population dynamics of 6117	Delia antiqua on, resistance to 469
in Mexico 980, 1652	Aleyrodes proletella	Labopidea spp. on 709
in USA 975, 980, 1465, 1987, 1988, 2979, 3488, 3502, 4005, 4564, 4565,	in Netherlands 3829 on cabbage, in Netherlands 3829	Allium cepa (see Onion) Allium fistulosum, Delia antiqua on,
4566, 4567	Aleyrodidae	resistance to 4047
on Ardisia solanacea, development of	control of, insecticides for 1157, 3019,	Allium porrum (see Leek)
4565	3816, 4383	Allium sativum (see Garlic)
on Citrus	flight muscles in, contraction frequency of	Allium ursinum Cheilosia fasciata on, in Norway 4594
dispersal of 2975	53 in Netherlands 3829	Portevinia maculata on, in Norway 4594
distribution pattern of 4567 in Florida 975, 1465, 2979, 3488,	insecticide resistance in, detecting and	Allograpta, in maize fields, in Mexico 1653
4005, 4566	measuring of 3715	Allophroides, parasitising, Pleroneura spp.,
in Texas 1987, 1988	mounting of 1858	in California 3066
on Citrus jambhiri, development of 3501,	on Citrus 3825	Allotropa convexifrons, parasitising,
4565 on Citrus limettioides, development of	on cotton, in Egypt 3816 on potato, in Rajasthan 3019	Pseudococcus comstocki, and biological control using, in California 5079
3501	on soyabean, in Missouri 459	Alloxysta
on Citrus limonia, development of 3501	oviposition in 2976	hyperparasitising, Aphis craccivora, in
on Citrus macrophilla, development of	plant viruses transmitted by, review 3148	Uttar Pradesh 5108
3501	Aleyrododea, in Poland 4859	parasitising, <i>Trioxys indicus</i> , in Uttar
on Eugenia uniflora, in Florida 1465,	Alfa-tox (see Diazinon, with methoxychlor) Alfalfa (see Lucerne)	Pradesh 5108 Alloxysta brassicae
4005 on grapefruit	Alfalfa mosaic virus	hyperparasitising, Brevicoryne brassicae
development of 3501	control of, vector control for 3560, 5049	115, 6312

longispinosus)

alphaeus, Capys

```
Alloxysta brassicae contd.
                                                                                             Alphitobius diaperinus
                                                                                                                                                                                          Amauromorpha, parasitising, Scirpophaga incertulas, in West Bengal 906
     hyperparasitism by, model 6312
                                                                                                  cuticle in, hydrocarbons in 4790
                                                                                                  in Finland 3786 in France 5230
     parasitising, Diaeretiella rapae 115, 6312
                                                                                                                                                                                           Ambeodontus tristis, control of, insecticides
      searching efficiency of 115
                                                                                                                                                                                                 for 6662
                                                                                                  in India 5807
in Japan 4293
 Alloxysta megourae
biology of 5478
                                                                                                                                                                                          ambigua, Daphnia
ambiguella, Eupoecilia
                                                                                                                                                                                          ambiguous, Acridencyrtus
     hyperparasitising, Acyrthosiphon pisum
                                                                                                  in expanded polystyrene, damage caused
                                                                                                                                                                                           ambiguus, Aphidius (see Lysiphlebus
                                                                                                        by 5230
     ovipositor in, sensory apparatus on 5478
                                                                                                  in wheat grain, in Chandigarh 5807
                                                                                                                                                                                                 ambiguus)
 parasitising, Aphidius smithi 5478
Alloxysta pleuralis 5108
Alloxysta victrix
                                                                                              Alphitobius laevigatus, in Japan 4293
Alphitophagus bifasciatus, cuticle in,
                                                                                                                                                                                           ambiguus, Lysiphlebus (Aphidius)
                                                                                                                                                                                           Ambithion (see Fenitrothion, with
                                                                                                    hydrocarbons in 4790
                                                                                                                                                                                                 malathion)
     hyperparasitising, grain aphids, in
England 1388
in UK 1388
parasitising, Aphidius spp., in England
                                                                                              alpina, Conicobruchus
                                                                                                                                                                                           ambix, Eriophyes
                                                                                             alpinus, Phytocoris
alpium, Moma
                                                                                                                                                                                           Amblycerus
                                                                                                                                                                                               food-plants of 1584
taxonomy of, food-plant preferences as
                                                                                              alsiosa, Empoasca
           1388
Almond (Prunus amygdalus)
Amyelois transitella on
in California 3994
oviposition by 374
components of hulls of 6453
                                                                                              Alsophila pometaria
                                                                                                                                                                                                     characters for 6626
                                                                                                                                                                                          Amblycerus acapulcensis
biology of 5199
                                                                                                  food-plant relations in, genetic variation
                                                                                                        and 5742
                                                                                                  in Canada 1977
                                                                                                                                                                                               descriptions of 5199
                                                                                                                                                                                               in Mexico 5199
                                                                                                  in USA 1562, 4931, 5742
     Euproctis chrysorrhoea on, susceptibility
to Bacillus thuringiensis of 4653
Panonychus ulmi on, in California 3994
                                                                                                  on Acer, in New York 5742
                                                                                                                                                                                               on Caesalpinia cacalaco, in Mexico 5199 taxonomy of, characters distinguishing A.
                                                                                                  on apple, in Nova Scotia 1977
                                                                                                  on Quercus, in New York 5742
                                                                                                                                                                                                     robiniae and 5199
                                                                                                                                                                                          Amblycerus robiniae
biology of 5199
descriptions of 5199
in USA 5199
on Gleditsia triacanthos, in New Mexico
     pest management on 2932
Pterochloroides persicae on, in Italy
1972, 5614
                                                                                                  oviposition sites of, adaptive significance
                                                                                                        of 4931
                                                                                             predators of, escape from 1562
alsophilae, Telenomus
Alternanthera philoxeroides, control of,
biological 5944
Alternaria alternata
     Tetranychus pacificus on
damage caused by 3992
in California 3994
                                                                                                                                                                                                     5199
 Almond oil, in Tyrophagus putrescentiae diet, effects on development of 6172
Almond orchards, predatory arthropods in, effects of insecticides on 3994
                                                                                                                                                                                          taxonomy of, characters distinguishing A. acapulcensis and 5199
Amblycheila, compound eyes in 1227
Amblynotus opacus (see Melanips opacus)
                                                                                                      wheat grain
                                                                                                           interactions with other pests of 4668 not associated with mites 4120
                                                                                                                                                                                          Amblynotus opacus (see Melanips opacus)
Amblyopone
sexual calling in 4432
sting apparatus in 2809
Amblyopone pallipes
sexual calling in 4432
sting apparatus in 2809
Amblyospora, spores of, cleaning of 613
Amblypelta, on avocado, damage caused by 972
Amblynelta cocombage
 Almond (stored nuts)
                                                                                             alternata, Rhagoletis
alternatus, Nabis
alternatus, Pterohelaeus
Althaea rosea (see Hollyhock)
althaeae, Brooksetta (Melanotrichus)
althaeae, Melanotrichus (see Brooksetta
althaeae)
     Dermestes spp. in, development of 3616
     Trogoderma granarium in, imported into USSR 1607
alneti, Alnetoidea
Alnetoidea alneti, on Tilia, model 6591
alni, Acronicta (Apatele)
alni, Apatele (see Acronicta alni)
alni, Psylla
                                                                                              Altica
                                                                                             in Central Europe 2179
larvae of 2179
taxonomy of 1768
Altica birmanensis (see A. cyanea)
Altica brevicollis
                                                                                                                                                                                          Amblypelta cocophaga
control of, biological 3698
 Alnus
     Acleris tripunctana on, in West Germany
            1575
                                                                                                                                                                                               in Solomon Islands 3698
     Allantinae on, in North America 1178 Coleophora serratella on, in Switzerland
                                                                                                                                                                                               on coconut, in Solomon Islands 3698
                                                                                                                                                                                          Amblyseius
in India 1
                                                                                              control of, sterile-insect release for 1971
sterilisation of, γ-irradiation for 1971
Altica carduorum, on thistle, and biological
control using 5505
     Elasmucha antennata on, in Turkey 4095
Psylla alni on, in Turkey 1310
Tenthredinidae on, in Europe 5746
                                                                                                                                                                                               in Rajasthan 1361
                                                                                                                                                                                               in apple orchards, in Utah 2439
                                                                                                                                                                                               preying on, Thrips tabaci, in Netherlands
202
                                                                                              Altica cyanea
in India 2553, 5553
on rice, in Punjab 5553
on Rosa moschata, in Himachal Pradesh
2553
 Alnus glutinosa
                                                                                                                                                                                          Amblyseius aberrans
development in, effects of diet on 3
life-span in, effects of diet on 3345
preying on, Colomerus vitis 3345
reproduction in, effects of diet on 3
Amblyseius andersoni, reproduction in 1264
Cimbex connatus on, in Poland 4650 parasitic Hymenoptera associated with, in Poland 3602

Psylla visci on, in Bulgaria 4649

Alnus inokumae, Operophtera brumata on, damage caused by 5187

Alnus nepalensis, Neobetulaphis chaetosiphon on, in India 5210

Alnus rubra, Euceraphis gillettei on, in British Columbia 551

Alnus ruposa. Ceratocausus piceatus op
     Cimbex connatus on, in Poland 4650
                                                                                              Altica lythri
                                                                                                                                                                                                                                                                3345
                                                                                                  biology of 1768
                                                                                                  chromosomes in 1768
                                                                                                                                                                                          Amblyseius bibens
in Malagasy Republic 4992
preying on, Tetranychus spp., in Malagasy
Republic 4992
                                                                                                  in UK 1768
                                                                                                  taxonomy of 1768
                                                                                             Altica oleracea
biology of 1768
in UK 1768
 Alnus rugosa, Ceratocapsus piceatus on
                                                                                                                                                                                          Amblyseius californicus, in Peru 2334
Amblyseius citrifolius (see Euseius
       2573
Aloe barbadensis (see A. vera)
Aloe spinosissima, Eriophyes aloinis on,
damage caused by 5141
Aloe vera, insecticidal activity of extracts of
leaves of 1675
                                                                                                  taxonomy of 1768
                                                                                              Alticinae
                                                                                                                                                                                                 citrifolius)
                                                                                                  in Israel 4020
                                                                                                                                                                                          Amblyseius crotalariae, in India 1
Amblyseius deleoni
                                                                                                  in Taiwan 4195
                                                                                                  on Rutaceae 5618 taxonomy of, metafemoral apodeme as
                                                                                                                                                                                               development in, effects of humidity on 1353
 aloinis, Eriophyes
                                                                                             character for 6031
Altosid (see Methoprene)
Alystinae, venom apparatus in 2672
Alyssum saxatile
glucosinolates in 282
Alopecosa
in North America 1880
taxonomy of 1880
                                                                                                                                                                                               in Taiwan 1995
                                                                                                                                                                                               in orchards, in Taiwan 1995
                                                                                                                                                                                              preying on

Panonychus citri 1353

Tetranychus urticae, and biological
control using, in Japan 5921
 Alopecurus aequalis
Nephotettix cincticeps on 2913
N. virescens × N. cincticeps on 2913
N. virescens on 2913
                                                                                                  Phyllotreta armoraciae on, not feeding
                                                                                                                                                                                          Amblyseius emanus
sp. nov., description of 2334
in Brazil 2334
in Peru 2334
Alopeurus arundinaceus, cereal aphids on, survival and reproduction of 2358

Alophia combustella
in USSR 3460
                                                                                              amabilis, Eublemma
                                                                                              Amara
                                                                                                  in Soviet Far East 149
in apple orchards, in Ontario 957
in rye fields, in West Germany 6357
parasitised by, Microctonus amaraphagus,
in South Dakota 5467
                                                                                                                                                                                          in Peru 2334

Amblyseius fallacis (see Neosciulus fallacis)

Amblyseius gloreus

sp. nov., description of 1911

in Brazil 1911

Amblyseius hibisci

in USA 402
     preying on
Forda hirsuta, in Turkmenia 3460
          Slavum lentiscoides, in Turkmenia
                                                                                             In South Dakota 546/
Amaranthus retroflexus
Myzus persicae on, development of 3
Sitona lineatus on, in USA 4580
amaraphagus, Microctonus
amatella, Dioryctria
Amathes (see Xestia)
Amathes c-nigrum (see Xestia c-nigrum)
               3460
 Alophora subcoleoptrata
hosts of, defence mechanisms of 3264
in USSR 3264
                                                                                                                                                                                               preying on, Panonychus citri, in California
     parasitising, Eurygaster integriceps, in Caucasus 3264
                                                                                                                                                                                          Amblyseius largoensis, in India 1
Amblyseius longispinosus (see Neoseiulus
```

mblyseius maai	americanus, Eupteromalus	Aminotransferase, alanine contd.
in Taiwan 1995	Americas	in Heliocopris dillonii muscles 1795
in orchards, in Taiwan 1995	Bethylidae in 3847	in Scirpophaga incertulas fat-body 2371
mblyseius meghriensis, in USSR 3848	Ceresini in 2	Aminotransferase, aminobutyrate, in
mblyseius okanagensis, in USSR 3848	Ithomiidae in, book 4855, 4856	Scirpophaga incertulas fat-body 2371
mblyseius ovalis	Myndus spp. in 4192	
in India 1	Stichtoptychus spp. in 5285	Aminotransferase, aspartate
in Taiwan 1995	americoferus, Nabis	in Antheraea mylitta eggs, activity pattern of 4473
in orchards, in Taiwan 1995	Ametastegia rocia	
mblyseius pederosus	sp. nov., description of 1178	in Antheraea mylitta mid-gut, activity
sp. nov., description of 1911	on Salix, in North America 1178	pattern of 4471
in Brazil 1911	Ametastegia xenia	in Scirpophaga incertulas fat-body 2371
mblyseius peruanas	sp. nov., description of 1178	isoenzymes, in Dendroctonus ponderosae,
sp. nov., description of 2334	on Salix, in North America 1178	geographical variation in 4617
in Peru 2334	Amino acids	Aminotransferase, ornithine, in Scirpophaga
mblyseius plumifer (see Phytoseius	conjugation of pesticides with 3200	incertulas fat-body 2371
plumifer)	in Antheraea mylitta eggs, developmental	Aminotransferase, ornithine-keto acid, in
mblyseius potentillae	changes in 4473	Samia cynthia fat-body, activity pattern
predation by, models of 1981	in Antheraea mylitta mid-gut,	of 4472
preying on, Panonychus ulmi 1981	developmental changes in 4471	Amischa analis
mblyseius rademacheri	in Antheraea mylitta silk 744	in West Germany 6358
in Japan 3841	in Attacus atlas silk 744	in maize fields, in West Germany 6358
on Puccinia caricis, in Hokkaido 3841	in Betula, utilisation by Lepidoptera of	Amitermes rhizophagus
seasonal abundance of 3841	4099	biology of 1897
mblyseius scyphus	in Bombyx mori diet, requirement for	in USSR 1897
biology of 920	2698	amitinus, Ips
in USA 920	in Bombyx mori silk 744	Amitraz (N' -(2,4-dimethylphenyl)- N -[[(2,4-
preying on, Oligonychus pratensis, in	in Bombyx mori urine 6068	dimethylphenyl)imino]methyl]-N-
Texas 920	in Callosobruchus maculatus,	methylmethanimidamide)
mblyseius similis, in USSR 3848	developmental changes in 727	against
mblyseius umbraticus, in USSR 3848	in castor	Acarapis externus, on Apis mellifera
mblysellus curtisii	effects on Samia cynthia of 4369	3840
in USA 347	utilisation by Samia cynthia of 4370	Aculus schlechtendali, on apple 376
in grassland	in Ceratitis capitata pupae, effects of γ-	Heliothis armigera, on bean 1699
effects of fertilizers on 347	irradiation on 4786	Polyphagotarsonemus latus, on
effects of insecticides on 347	in Diacrisia obliqua, and in food-plants	Phaseolus vulgaris 1008
mblyteles armatorius	4029	Psylla pyricola, on pear 4888
in Greece 1966	in Dysdercus cingulatus, effects of	Tetranychus urticae 3357
parasitising, Noctua spp., in Greece 1966	antibiotics on 3190	on Citrus 4569
mbrosia, Uroleucon ambrosiae on, in	in grain crops, effects of aphids on 2876	with Bacillus thuringiensis, against,
Oklahoma 3343	in Heliothis zea, not affected by Nosema	Heliothis armigera, on bean 1699
mbrosia artemisiifolia, Dectes sayi on, in Ohio 854	heliothidis 1131	with fenvalerate, against, <i>Heliothis</i> spp.,
	in Hypena iconicalis 2225 in invertebrates, book 3274	on cotton 3552
mbrosia dumosa, Corythucha morrilli on, in California 5502	in Oxyrhachis tarandus feces 3748	with oil emulsion, against, <i>Psylla pyricola</i> on pear 4888
	in Phaseolus, effects on Aphis craccivora	with sulprofos, against, <i>Heliothis</i> spp., on
mbrosia eriocentra, Zygogramma tortuosa on, in California 5011	of 4340	cotton 3552
mbrosia psilostachya, Zygogramma	in potato, effects of carbofuran on 5114	Amitus, parasitising, Aleurolobus barodensis
disrupta on, in Texas 273	in rice	in Uttar Pradesh 2352
mbrosiae, Dactynotus (see Uroleucon	effects of Nilaparvata lugens on 2387	Amitus hesperidum
ambrosiae)	role in resistance to Orseolia oryzae of	development in, synchronisation of host
mbrosiae, Uroleucon (Dactynotus)	5562	development and 2979
mbrosiella hartigii	in Samia cynthia silk 744	in USA 975
in	in Scirpophaga incertulas hemolymph, and	in citrus groves, effects of pesticides on
hazel, in Italy 6455	in rice 2371	975
Xyleborus dispar, transmission of 6455	in Spodoptera littoralis, effects of	parasitising
mbush (see Permethrin)	insecticides on 4362, 4363	Aleurocanthus woglumi
melanchier alnifolia, Tachypterellus	in Spodoptera littoralis hemolymph,	and biological control using
quadrigibbus on, damage caused by 937	effects of nuclear polyhedrosis virus on	in Florida 2979, 3488, 4564
merica, Central	6686	in Mexico 1652
Acmaeodera spp. in 4306	in Tessaratoma papillosa hemolymph, and	in Florida 975
Chalcidoidea in 5410	in rice 2371	Aleurothrixus floccosus, and biological
Conotrachelus spp. in, on avocado 400	in Vigna unguiculata, effects on Aphis	control using, in Mexico 1652
cotton in, pest control on 4950	craccivora of 4340	Ammalo, parasitised by, Emdenimyia spp.
Staphylinidae in 1190	Aminocarb (4-(dimethylamino)-3-	4726
merica, North	methylphenyl methylcarbamate)	Ammonia
Acmaeodera spp. in 4306	Apotrosco elfelfee en lucerno 3447	attractant for, Neoaplectana carpocapsae
Actenodes spp. in 1583	Austroasca alfalfae, on lucerne 3447	1619
Allantinae in 1178	A. viridigrisea, on lucerne 3447 Choristoneura fumiferana, on Abies	in Bombyx mori urine 6068 Ammonification, in soil, not affected by
aquatic insects in, book 162	6630	insecticides 2141
Araneae in, book 2814 Forcipomyia spp. in 498	C. occidentalis, on Pseudotsuga 3707	Ammophila heydeni
Labopidea spp. in 709	Spodoptera littoralis 4156	in USSR 3337
Lycosidae in 1880	in aerial sprays, off-target fallout of 5739	plants visited by, in Uzbekistan 3337
Pygmephoridae in 2987	in forests, effects on birds of 1582	Amnemus quadrituberculatus, taxonomy of,
Staphylinidae in 1190	in Picea glauca, fate of 3193	Leptopiinae misidentified as, in
Tineidae in 15	in woodland streams, non-target effects of	Queensland 2482
America, South	6621	Amnemus superciliaris
Cercopidae in 16	resistance to, in	control of
Chalcidoidea in 5410	Spodoptera littoralis 6710	economics of 2921
Pterostichini in 14	role of esterases in 57	insecticides for 2921
Pygmephoridae in 2987	synergists for 4156	in Australia 2921
Tachytes spp. in 2764	Aminopeptidase, cytosol, in Chilo auricilius	on Desmodium intortum, in Queensland
American Samoa, Scolytidae in 4724	gut 5319	2921
mericana, Entomoscelis	Aminopeptidase, tripeptide, in Chilo	on Desmodium uncinatum, in Queensland
mericana, Kilifia	auricilius gut 5319	2921
mericana, Myrmica	Aminotransferase, in Tessaratoma papillosa	amnesius, Orius
mericana, Periplaneta	fat-body 2371	amoena, Trupanea
mericana, Phymata	Aminotransferase, alanine	Amorphophallus konjac, Palpifer sexnotatus
mericana, Schistocerca	in Antheraea mylitta eggs, activity pattern	on, in Japan 1533
mericanum, Eriosoma	of 4473	Ampedini, in USSR 11 Amphiareus constrictus
mericanum, Malacosoma	in Antheraea mylitta mid-gut, activity	in India 886
mericanus, Elaphrus	pattern of 4471	III IIIGIA 000

```
Amphiareus constrictus contd.
                                                                                                    Amsacta moorei contd.
                                                                                                                                                                                                        Anagrus perforator contd.
                                                                                                                                                                                                             in Cuba 4445
      preying on
                                                                                                         on Pennisetum americanum, in Rajasthan
          Nephotettix nigropictus, in Karnataka
                                                                                                                                                                                                             parasitising, Sogatodes orizicola, in Cuba
                                                                                                         on sesame, in Rajasthan 5101
on Vigna aconitifolia, in Rajasthan 5101
on Vigna radiata, in Rajasthan 5101
outbreaks of 5101
                                                                                                                                                                                                                    4445
                 886
 Nilaparvata lugens, in Karnataka 886 Amphicarpaea, Cerotoma trifurcata on,
                                                                                                                                                                                                         Anagyrus, in India 4191
                                                                                                                                                                                                         Anagyrus agraensis, taxonomy of 4191
Anagyrus alami, in India 4191
Anagyrus aligarhensis, in India 4191
        development of 6190
  Amphicerus bimaculatus
                                                                                                      Amsinckia douglasiana, beet curly top virus
                                                                                                     in, causing phloem sap exudation 4319

Amsinckia douglasiana phloem sap, diet component for, Myzus persicae 4319 amydraula, Batrachedra
      control of, insecticides for 942 in Bulgaria 942
                                                                                                                                                                                                         Anagyrus diversicornis, in India 4191
                                                                                                                                                                                                         Anagyrus greeni, in India 4191
      on grapevine, damage caused by sexual dimorphism in 942
                                                                                                                                                                                                         Anagyrus indicus
in India 4191
 sexual dimorphism in
Amphimallon solstitiale
biology of 2791
control of 2791
in USSR 2791
Amphipoea interoceanics
biology of 6447
illustrations of 6447
in Canada 6447
                                                                                                     Amyelois transitella
                                                                                                                                                                                                         taxonomy of 4191

Anagyrus longipennis, in India 4191

Anagyrus mirzai, in India 4191
                                                                                                         attractants for 6453
                                                                                                         control of
                                                                                                        growth regulators for 2092, 6453 insecticides for 3994 non-target effects of 3994 in USA 374, 3994

Neoaplectana carpocapsae in, culturing of 618, 4876 on almond in California 374, 3994
                                                                                                                                                                                                         Anagyrus pseudococci
                                                                                                                                                                                                             in Israel 3800
                                                                                                                                                                                                             in citrus groves, effects of insecticides on
illustrations of 6447
in Canada 6447
in USA 6447
on strawberry, damage caused by 6447
Amphitornus coloradus
in USA 1421
population dynamics of 1421
Amphorophora, karyotypes of 3728
amplificatus, Opsiphanes invirae
Amrasca biguttula
control of, insecticides for 1521
in Philippines 438, 3952
on Vigna radiata, in Philippines 438
on Vigna unguiculata, effects of cultural
practices on 3952
Amrasca biguttula biguttula
                                                                                                                                                                                                                   3800
                                                                                                                                                                                                             insecticides in, toxicity of 5631 parasitising, Planococcus citri, in Israel
                                                                                                         on almond, in California 374, 3994
                                                                                                                                                                                                                    3800
                                                                                                         oviposition in
                                                                                                         inhibitors of 374
stimulators of 374
sex pheromone of
identity of 4764
                                                                                                                                                                                                         Anagyrus punctulatus, in India 4191
                                                                                                                                                                                                         Anagyrus saccharicola, in India 4191
                                                                                                                                                                                                        Anagyrus swezeyi, in India 4
Anagyrus swezeyi, in India 4191
anale, Agrypon (Trichonotus)
analis, Amischa
analis, Callosobruchus
                                                                                                               laboratory synthesis of 4764, 5421
                                                                                                    aworatory synthesis of responses to 2205 amygdali, Hyalopterus amygdalinus, Brachycaudus Amylase
                                                                                                                                                                                                         analis, Trichonotus (see Agrypon anale)
Ananas comosus (see Pineapple)
                                                                                                                                                                                                         Anaphaeis aurota
                                                                                                         in Cheyletus eruditus gut 4231
in Chilo auricilius gut 5319
in Solenopsis invicta labial glands 6291
                                                                                                                                                                                                             in Qatar 6128
                                                                                                                                                                                                        on Capparis spinosa, in Qatar 6128

Anaphothrips obscurus
biology of 315
 Amrasca biguttula biguttula control of
                                                                                                         in Solenopsis invicta mid-gut 6291
     control of insecticides for 414, 2487, 2494, 2495, 5710, 5719, 6561 timing of 6561 in India 413, 2039, 2487, 2494, 5710, 5712, 5719, 6561 on castor, in Maharashtra 5710
                                                                                                     Amyna octo
in Kenya 4843
migration in 4843
                                                                                                                                                                                                             control of
                                                                                                                                                                                                                  cultural 315
                                                                                                                                                                                                                  insecticides for 315
                                                                                                     Amyna punctum
in Kenya 4843
migration in 4843
                                                                                                                                                                                                             in China 315
                                                                                                                                                                                                             on maize, in China 315
                                                                                                     Anabaena azollae, carbofuran in, not toxic 278
                                                                                                                                                                                                        on maize, in China 315
on wheat, in China 315
Anarsia ephippias
control of, insecticides for 2487
food-plants of 2350
in India 2350, 2487
on groundnut, in Madhya Pradesh 2487
on soyabean, in Madhya Pradesh 2487
Anarsia lineatella
      on cotton
          effects of sowing date on 2039
in Orissa 413
in Punjab 5719, 6561
                                                                                                     Anabrolepis bifasciata
descriptions of 2046
in Taiwan 2046
          resistance to, relation of organic acids
                                                                                                    in Taiwan 2046
parasitising, Pseudaonidia duplex, in
Taiwan 2046
Anacampsis populella
biology of 1575
food-plants of 1575
in West Germany 1575, 1576
on Betula, in West Germany 1576
parasites of, in West Germany 1575,
1576
                 and 6568
      on groundnut, in Madhya Pradesh 2487
      on okra
          assessing infestations of 1494
                                                                                                                                                                                                             attractants for 1986, 3235
          in Orissa 413
                                                                                                                                                                                                             control of
      on potato, in Maharashtra 2494
                                                                                                                                                                                                                  biological 5615
                                                                                                                                                                                                                  growth regulators for 5615
      on sunflower, varietal preferences of
                                                                                                                                                                                                             insecticides for 2434, 5615
timing of 5615
in Czechoslovakia 3235
             5712
                                                                                                                1576
      population dynamics of 413
  Amrasca devastans
                                                                                                         population dynamics of 1576
                                                                                                     Anacanthotermes ahngerianus
biology of 1897
                                                                                                                                                                                                             in Italy 6459
in Romania 5615
in West Germany
      control of
     control of insecticides for 1492, 2038, 2539, 2543, 3038, 4017, 5649 timing of 2038 eggplant little leaf disease, causal agent in, transmission of 474 in India 1492, 1553, 2543, 3038, 4017, 4067, 5649 in Pakistan 2038 in Thailand 2539 on cotton
                                                                                                    biology of 1897
Caloglyphus absoloni in mounds of, in
USSR 1357
in USSR 1357, 1897
Anacanthotermes turkestanicus
biology of 1897
in USSR 118, 1897
in uSSR 118, 1897
in structural wood, in USSR 118
Anacardium occidentale (see Cashew)
anachoreta, Clostera
Anacridium melanorhodon, on Acacia,
feeding deterrents to 6271
Anagasta kuehniella (see Ephestia
                                                                                                                                                                                                                                                     1986
                                                                                                                                                                                                        on peach
forecasting infestations of 5615
in West Germany 1986
traps for 1986, 5615
anastasii, Pheidole
Anastatus, in Trinidad 2768
Anastatus bifasciatus
in Italy 3070
                                                                                                                                                                                                             parasitising, Thaumetopoea pityocampa, in
Italy 3079
      on cotton
           effects of fertilizers on
                                                                                                                                                                                                        Italy 3079

Anastatus disparis (see A. japonicus)

Anastatus japonicus
           in Delhi 2543
          in Pakistan 2038
in Thailand 2539
                                                                                                     Anagasta kuehniella (see Ephestia
                                                                                                           kuehniella)
           resistance to 1553, 4067
                                                                                                     Anagrus
                                                                                                                                                                                                             hyperparasitising, Lymantria dispar 1564 in Japan 2569
                                                                                                         parasitising
 on okra
in Karnataka 1492
in Maharashtra 5649
in Rajasthan 4067
in Uttar Pradesh 4017
Amrasca kerri (see Empoasca kerri)
Amsacta albistriga
control of 2846
insecticides for 6527
in India 2846, 6527
nuclear polyhedrosis virus in, effects of 3010
on groundnut, in Tamil Nadu 6527
                                                                                                     Empoasca onukii, in Japan 3056
Eupteryx spp., in Wales 4484
Nilaparvata lugens, in Orissa 327
Anagrus flaveolus
in Philippines 3908
arrestitions rice becomes in Philippines
                                                                                                                                                                                                             parasitising
Apanteles melanoscelus 1564
                                                                                                                                                                                                                  Dinorhynchus dybowskyi, in Hokkaido
2569
                                                                                                                                                                                                        2569
Lymantria dispar 1564
Anastatus kashmirensis
hyperparasitising, Lymantria dispar 1564
in India 1564
in Japan . 2569
parasitising
Apanteles melanoscelus 1564
Dinorhynchus dybowskyi, in Hokkaido
2569
                                                                                                         parasitising, rice hoppers, in Philippines 3908
                                                                                                     Anagrus incarnatus
in Italy 5512
                                                                                                         parasitising
Cicadella viridis 5512
Conomelus dehneli, in Italy 5512
      on groundnut, in Tamil Nadu 6527
  Amsacta lactinea, Bacillus cereus in, pathogenicity of 2618
                                                                                                    Anagrus optabilis
in Thailand 911
                                                                                                                                                                                                                  Lymantria dispar 1564
                                                                                                                                                                                                        Anastatus semiflavidus
in USA 2409
 Amsacta moorei
in India 5101
                                                                                                              Nilaparvata lugens, in Thailand 911
Sogatella furcifera, in Thailand 911
                                                                                                                                                                                                             parasitising, Hemileuca oliviae, in
      on Boehmeria nivea, resistance to 1051
      on Cyamopsis tetragonoloba, in Rajasthan 5101
                                                                                                     Anagrus perforator
biology of 4445
                                                                                                                                                                                                                    Oklahoma 2409
                                                                                                                                                                                                        Anastrepha, on cassava, in Colombia 1025
```

Annual reports (1975-76), Instituto de

Investigaciones Agropecuarias, Chile

bject Index
astrepha ludens
control of
bait sprays for 2305
insecticides for 2305
sterile-insect release for 4796 traps for 2305
traps for 2305 in Mexico 1666, 2305, 3356, 4796
on Citrus in Marico 1666
on Citrus, in Mexico 1666 on mango, in Mexico 2305
on Sargentia greggii, in Mexico 3356
nargeitised by
Doryctobracon crawfordi, in Mexico
3330
Opius spp., in Mexico 3356
Opius spp., in Mexico 3356 population dynamics of 3356 rearing of, techniques for 1666
seasonal abundance of 1666
traps for 1666
astrepha suspensa
attractants for 2154
control of, fumigants for 2098 descriptions of 2188
development in 2188
droopy wing syndrome in 6036
oviposition in 4832, 4833
wings of, measuring of 805
descriptions of 3074
descriptions of 3074 food-plants of 3074 in Brazil 3074
in Brazil 3074
on Terminalia catappa, in Brazil 3074
atipennella, Coleophora
atolicus, Hoplopteridius lutosus
ceps, Apamea cistrotermes cavithorax
defensive secretion in, identity of 667
defensive secretion in, identity of 667 predator mandibular-gland secretions not
repelling 1876
cylivorus, Macrocentrus
daspis dasi, taxonomy of, synonym of A numerata 6583 daspis formicarum
daspis formicarum
sp. nov., description of 399
in South Africa 399
in ant nests, in South Africa 399
on Ficus capensis, in South Africa 399
preyed on by, Melissotarsus spp., in Sout
preyed on by, <i>Melissotarsus</i> spp., in Sout Africa 399
preyed on by, <i>Melissotarsus</i> spp., in Sout Africa 399 scale covering absent in 399 <i>daspis numerata</i>
preyed on by, <i>Melissotarsus</i> spp., in Sout Africa 399 cale covering absent in 399 daspis numerata in Australia 6583
preyed on by, <i>Melissotarsus</i> spp., in Sout Africa 399 cale covering absent in 399 daspis numerata in Australia 6583
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583
preyed on by, <i>Melissotarsus</i> spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 on tea 6583
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 Septobasidium spp. associated with, in Papua New Guinea 6583
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 idaspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 Septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 sdaspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 Septobasidium spp. associated with, in Papua New Guinea 6583 axonomy of, Andaspis dasi as synonym of 6583
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 sdaspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 Septobasidium spp. associated with, in Papua New Guinea 6583 axonomy of, Andaspis dasi as synonym of 6583
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius derector ruficornis (see Cerotoma
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 idaspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 on tea 6583 axonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 Septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 of Papua New Guinea 6583 of Papua New Guinea 6583 of Papua New Guinea 6583 daxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in secretion of 3744 mandibular glands in secretion of 3744
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 100 scale covering absent in Australia 6583 in India 6583 scale covering absence a 6583 scale covering a 6583 scale
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 Septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) derena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 3744 taxonomy of 2657 dresi, Haplothrips
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 Septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 3744 daxonomy of 2657 drei, Haplothrips dricus singulus in Poland 3082
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 on tea 6583 saxonomy of, Andaspis dasi as synonym of 6583 dasonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 3744 mandibular glands in, secretion of 3744 drena drena professional synonym of 2657 dresi, Haplothrips dricus singulus in Poland 3082 on Quercus cerris, in Poland 3082
preyed on by, Melissotarsus spp., in Sout Africa 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 in Papua New Guinea 6583 deptobasidium spp. associated with, in Papua New Guinea 6583 deptobasidium spp. associated with, in Papua New Guinea 6583 deptobasidium spp. associated with, in Papua New Guinea 6583 deptobasidium spp. associated with, in Papua New Guinea 6583 deptobasidium spp. associated with, in Papua New Guinea 6583 deptobasidium spp. associated with, in Papua New Guinea 6583 deptobasidium spp. associated with, in Papua New Guinea 6583 derestor unicornis (see Cerotoma ruficornis) deread ruficornis deread augusta deread au
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in Australia 6583 in India 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 sexptobasidium spp. associated with, in Papua New Guinea 6583 axonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 3744 draxonomy of 2657 dresi, Haplothrips dricus singulus in Poland 3082 deficieus singulus on Quercus cerris, in Poland 3082 dracada assalis in Canada 3127
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 axonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 3744 daxonomy of 2657 dresi, Haplothrips dricus singulus in Poland 3082 on Quercus cerris, in Poland 3082 drolelaps casalis in Canada 3127 in Vicia faba seeds, in Manitoba 3127 in Vicia faba seeds, in Manitoba 3127
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in Australia 6583 in India 6583 in India 6583 in Papua New Guinea 6583 scale constitution of 6583 scatter of 383 scatter of 384 sc
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in Australia 6583 in India 6583 in India 6583 in Papua New Guinea 6583 scale constitution of 6583 scatter of 383 scatter of 384 sc
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 3744 taxonomy of 2657 dressi, Haplothrips dricus singulus in Poland 3082 on Quercus cerris, in Poland 3082 drolaelaps casalis in Canada 3127 in Vicia faba seeds, in Manitoba 3127 dropogon, Locusta migratoria on, development of 2321
preyed on by, Melissotarsus spp., in Sout Africa 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 in Papua New Guinea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius derector ruficornis (see Cerotoma ruficornis) direna Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 3744 taxonomy of 2657 dresi, Haplothrips dricus singulus in Poland 3082 on Quercus cerris, in Poland 3082 dropagon, Locusta migratoria on, in Mal 3328 dropogon africanum, Locusta migratoria on, development of 2321 dropogon gerardii, cereal aphids on,
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 axonomy of, Andaspis dasi as synonym of 6583 dasonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 daxonomy of 2657 dresi, Haplothrips dricus singulus in Poland 3082 drolealaps casalis in Canada 3127 in Vicia faba seeds, in Manitoba 3127 dropogon, Locusta migratoria on, development of 2321 dropogon africanum, Locusta migratoria on, development of 2321 dropogon gerardii, cereal aphids on, survival and reproduction of 2358
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drema display of 2657 dress, and
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 taxonomy of 2657 dresi, Haplothrips dricus singulus in Poland 3082 on Quercus cerris, in Poland 3082 on Quercus cerris, in Poland 3082 drolaelaps casalis in Canada 3127 in Vicia faba seeds, in Manitoba 3127 dropogon, Locusta migratoria on, in Mal 3328 dropogon africanum, Locusta migratoria on, development of 2321 dropogon africanum, Locusta migratoria on, development of 2321 dropogon africanum, cereal aphids on, survival and representation of 2358 drotrades, 283 eristus ceroplastae
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius director ruficornis (see Cerotoma ruficornis) director in the company of 3744 mandibular glands in, secretion of
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 in Papua New Guinea 6583 sceptobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 darsoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 2321 mandibular glands in, secretion of 2321 mandibular glands in, secretion of 2358 mandibular glands in, se
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in India 6583 in India 6583 in Papua New Guinea 6583 on tea 6583 septobasidium spp. associated with, in Papua New Guinea 6583 axonomy of, Andaspis dasi as synonym of 6583 dersoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 axonomy of 2657 dresi, Haplothrips dricus singulus in Poland 3082 on Quercus cerris, in Poland 3082 drolaelaps casalis in Canada 3127 in Vicia faba seeds, in Manitoba 3127 dropogon, Locusta migratoria on, in Mal 3328 dropogon africanum, Locusta migratoria on, development of 2321 dropogon gerardii, careal aphids on, survival and reproduction of 2358 drotradesh 285 eristus ceroplaste in Bangladesh 5087 parasitissing Ceroplastes pseudoceriferus, in
preyed on by, Melissotarsus spp., in Sout Africa 399 scale covering absent in 399 daspis numerata in Australia 6583 in Papua New Guinea 6583 in Papua New Guinea 6583 sceptobasidium spp. associated with, in Papua New Guinea 6583 taxonomy of, Andaspis dasi as synonym of 6583 darsoni, Amblyseius drector ruficornis (see Cerotoma ruficornis) drena Dufour's gland in, secretion of 3744 mandibular glands in, secretion of 2321 mandibular glands in, secretion of 2321 mandibular glands in, secretion of 2358 mandibular glands in, se

Anesthetics, for Bombyx mori, carbon dioxide as 5254

angelicae, Trioxys

Anethum graveolens (see Dill)
Angelica sylvestris, insecticidal activity of oil from 6173

Angola Acridoidea in 234 Sitobion hillerislambersi in, on Cyperus esculentus 2854 angraeci, Conchaspis Angraecum eberneum, Conchaspis angraeci on 506 angulatus, Acinopterus angulatus, Blepharidopterus anguliplaga, Trachea angustana, Eupoecilia angustatus, Calocoris angustibasis, Apanteles angusticeps, Thrips angusticollis, Zootermopsis angustifrons, Bruchidius angustum, Trogoderma angustus, Cynaeus Anilix (see Chlorfenethol, with chlorfensulphide) Animal products, pesticides in, effects on food value of 1708

Anisandrus dispar (see Xyleborus dispar)

Aniseed (see Pimpinella anisum) Anisepyris subviolaceus in USA 1943 parasitising, Surattha indentella, in Kansas 1943 anisocentra, Homadaula Anisodactylus, in Italy 3859 Anisodactylus binotatus distribution of 3859 in Italy 3859
taxonomy of 3859
Anisodactylus sanctaecrucis in USA 1394 in maize fields, in Iowa 1394 seasonal abundance of 1394 Anisolabis annulipes (see also Euborellia annulipes) in India 797 Anisolabis maritima, in Malta 5413
Anisolemnia dilatata, Perilitus coccinellae
not parasitising 1886 Anisoplaca ptyoptera
biology of 5890
food-plants of 5890
in New Zealand 5890 on Ulex europaeus, in New Zealand 5890 parasites of, in New Zealand 5890 Anisoplia austriaca
in Yugoslavia 2869
on wheat, in Yugoslavia 2869 Anisopteromalus calandrae courtship in 1270 in India 3677 in Libya 3508 parasitising Araecerus fasciculatus, in Karnataka 3677 Lasioderma serricorne, in Karnataka 3677 Saissetia oleae, in Libya 3508 pupae of, CO₂ tolerance in 1116 Anisoscelis foliacea marginella in Brazil 187 on Passiflora alata, in Brazil seasonal abundance of 187 Anisosticta novemdecimpunctata biology of 791 descriptions of 791 distribution of 791 in eucalypt forests, in Victoria 5763 in pine forests, in Victoria 5763 anncharlotteae, Eriosoma Annelida 1944, 2469, 4726 Annona, Pseudococcidae on, in Chile 4174 Annona muricata, Graphium spp. on, in Ghana 5360 Annona squamosa, Graphium spp. on, in Ghana 5360 Annona squamosa orchards, parasitic insects in, in Andhra Pradesh 6310 Annonaceae, Graphium spp. on, in Ghana Annual reports (1974-75), Instituto de Investigaciones Agropecuarias, Chile

Annual reports (1975), Ministry of

Agriculture, Kenya 4181

Annual reports (1976) Forest insect and diseases survey, Canada 6616 Jute Agricultural Research Institute, India 1051 Ministry of Agriculture and Natural Resources and the Environment, Mauritius 1171 PLANALSUCAR, Brazil 1916 Annual reports (1976-77)
Agricultural Research Division, University of Botswana and Swaziland 2159 Plant Protection Research Institute, Zimbabwe 4720 Stored Products Research Institute, Nigeria 6644 Annual reports (1977)
Agricultural Development and Advisory
Service, UK 1757, 1758 Centre for Overseas Pest Research, UK 3242 Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières, Tropicales et des Cultures Vivrières, France 693
New York State Agricultural Experiment Station, Geneva 2163
PLANALSUCAR 289
Plant Protection Service, German Federal Republic 2162
Research Branch, Department of Agriculture, Sarawak 2651
United Planters' Association of Southern India 4084 India 4084 Annual reports (1977-78) Agricultural Research Division, Ministry of Agriculture and Cooperatives, Swaziland 2160 Australian Plague Locust Commission 6272 02/2 BIOTROP 2155 Conseil de Recherches et Services Agricoles du Québec 4177 Cornell University Agricultural Experiment Station 3241 Cotton Research Institute, Zimbabwe 5123 Department of Agricultural Technical Services, South Africa 695 ICRISAT 4722 New York State College of Agriculture and Life Sciences 3241 Annual reports (1978)
Agricultural Research Institute, Cyprus 1761 Biological Federal Institute for Land and Forest Research in Berlin and Forest Research in Berlin and
Brunswick 2157
Centre de Recherches Agronomiques de
l'État, Belgium 2165
Crop Protection Service, Gambia 4182
Danish Pest Infestation Laboratory 2158
Department of Agriculture for Northern
Ireland 4184
Department of Agriculture, Western
Australia 692
East African Agriculture & Forestry
Research Organization 2653
Edinburgh School of Agriculture 4175 Edinburgh School of Agriculture 4175 Forest insect and disease survey, Newfoundland 6624 Forest Research Institute, New Zealand 5778 Glasshouse Crops Research Institute, UK 2654 Hawaiian Sugar Planters' Association Experiment Station 2355 Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières, France 5496 Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières, Réunion 694, 5077 International Centre of Insect Physiology and Ecology, Kenya 2156 International Institute of Tropical Agriculture, Nigeria 696, 4180

```
Annual reports (1978) contd.
                                                                                        Anomala albopilosa contd.
                                                                                                                                                                                 Antheraea contd.
                                                                                            on sugar-cane, in Japan 2859, 2860, 2861, 2862, 2863
                                                                                                                                                                                     parasites of, control of 2846
pheromones in, recognition of 1725
    International Organization for Biological
          Control, West Palaearctic Regional
Section 3825
                                                                                         Anomala corpulenta
                                                                                                                                                                                 Antheraea mylitta
                                                                                            control of, insecticides for 677 in China 677
                                                                                                                                                                                    embryonic development in 4473
enzymes in 4470, 4471, 4473
fat-body in 4470
    International Potato Centre, Peru 2027
    Kirton Experimental Horticulture Station
          1759
                                                                                         Anomala cuprea
                                                                                         biology of 2728
in Japan 2728
Anomalaphidini, taxonomy of, chromosomes
    Long Ashton Research Station, UK
                                                                                                                                                                                      in India 2846
          5069
                                                                                                                                                                                     lipids in, developmental changes in 1237
    Mauritius Sugar Industry Research
Institute 5513
                                                                                                                                                                                     mid-gut in, developmental changes in
                                                                                               as characters for 3728
    National Institute of Agricultural
Research, Mexico 2294
                                                                                         Anomalinae, in Lithuania 5391
                                                                                                                                                                                     nuclear polyhedrosis virus in, not infective
                                                                                         Anomalon morleyi
in Australia 1919
parasitising, Tenebrionidae, in Queensland
                                                                                                                                                                                           5006
                                                                                                                                                                                     parasites of, control of 2846
parasitised by, Blepharipa zebina 2846
silk of, amino acids in 744
    Processors & Growers Research
Organisation, UK 4176
                                                                                                   1919
    Regional Agricultural Science Service, UK
                                                                                                                                                                                accessory glands in 4784
hemocytes in 6314
muscles in, degeneration of 6052
sex pheromone of, receptors for
Anthersea polyphemus (see Telea
                                                                                         Anomaloninae, in Africa 4460
           4721
                                                                                        anomalus, Pipunculus
Anomis flava
in Japan 4287
    Solomon Islands Entomologist 4179
    State Plant Pathology Institute, Denmark
                                                                                        pest status of 4287

Anomis leona
in Ghana 2552
on cacao, in Ghana 2552
          52.82
                                                                                                                                                                                                                                                2705
    Stockbridge House Experimental
                                                                                                                                                                                Antheraea polypnemus)
Antheraea proylei
in India 2846
on Quercus 2846
          Horticulture Station, UK 4578
Annual reports (1978-79)
                                                                                        on cacao, in Ghana 2552
parasites of, in Ghana 2552
pathogens of, in Ghana 2552
Anomis sabulifera
control of, insecticides for 6571
in India 3559, 5131, 6571
    Agricultural Research Council, UK 2652
    Bureau of Sugar Experiment Stations,
Oueensland 3880
                                                                                                                                                                                 silk production by

Antheraea roylei × 2

on Quercus 2846
                                                                                                                                                                                                                        2846
    Central Coffee Research Institute, India
                                                                                                                                                                                                                    A. pernyi
    4081, 4082
Central Tasar Research Station, India
                                                                                                                                                                                     silk production by
                                                                                             on jute
                                                                                                                                                                                 Antheraea yamamai
pupal development in
effects of photoperiod on
effects of temperature on
4827
                                                                                                 damage caused by 5131 in India 3559
    Commonwealth Institute of Biological
    Control 3185
Department of Scientific and Industrial
Research, New Zealand 1760
Forestry Commission, UK 6602
Sir Alan Fletcher Research Station 5498
                                                                                                 in West Bengal 6571
                                                                                                 varietal preferences of 5131
                                                                                             outbreaks of, weather conditions favouring
                                                                                                                                                                                 Antheua servula
                                                                                                  3559
                                                                                                                                                                                     in Bangladesh
                                                                                                                                                                                                                433
                                                                                       Anopheles
biology of 2233
insecticide resistance in 5247
in Nicaragua 4951
Anopheles stephensi, Nosema algerae in, infectivity of 1631
Anophocnemis curvipes
in Nigeria 454
on Vigna unguiculata, in Nigeria 454
Anophocnemis phasiana
distribution of 796
in India 796, 1839, 1840
Anoplognathus montanus, on Eucalyptus, not affected by oil content 6634
Anoplolepis longipes
control of
baits for 243
                                                                                                                                                                                     on Vigna radiata, in Bangladesh 433
                                                                                                                                                                                 Anthicus cervinus
in USA 6196
in soyabean fields, in Iowa
seasonal abundance of 6196
    Tobacco Research Board, Zimbabwe
    University of Agricultural Sciences,
Hebbal 4183
Wattle Research Institute, South Africa
2597
                                                                                                                                                                                                                                       6196
                                                                                                                                                                                  Anthio (see Formothion)
                                                                                                                                                                                 Anthocoridae
Annual reports (1979)
Cornell University Agricultural
Experiment Station 5281
National Vegetable Research Station, UK
                                                                                                                                                                                in Galápagos Islands 6127
preying on, Thysanoptera, in India 5468
Anthocoris nemoralis
in France 5607
in Italy 6457
in Switzerland 1982
           6501
    New York State College of Agriculture
and Life Sciences at Cornell University
                                                                                                                                                                                     in pear orchards, in Switzerland 1982
                                                                                                                                                                                     preying on
                                                                                                                                                                                         Psylla pyri
in France
    Rothamsted Experimental Station, UK 6736, 6737
                                                                                                 baits for
Annual reports (1979-80), Commonwealth
Institute of Biological Control 6692
                                                                                             insecticides for 243, 825 research on, funded by UK
                                                                                                                                                                                             in Italy 6457
                                                                                                                                                                                 Anthocoris nemorum
                                                                                                                                                                                     in Poland 3473
in USSR 1442, 3456, 5396
in Yugoslavia 4864
in apple orchards, in Poland 3473
annulata, Myzocallis (see Tuberculatus
                                                                                         Anotylus sculpturatus
      annulatus)
                                                                                             in Belgium 295
                                                                                         in wheat fields, in Belgium 295
Ant (see Formicidae)
annulatus, Scambus
annulatus, Tuberculatus (Myzocallis)
annulipes, Agathis
annulipes, Anisolabis (see Euborellia
                                                                                                                                                                                in apple or clearus, in Voland Preying on Byturus tomentosus, in USSR 14
Caliroa cerasi, in Lithuania 5396
Dasineura tetensi, in USSR 3456
searching behaviour in 6319
Anthocoris sarothamni
in Czechoslovakia 4648
                                                                                        antaeus, Strategus
antennalis, Polistes chinensis
antennata, Elasmucha
antennata, Nezara
                                                                                                                                                                                                                                                  1442
annulipes)
annulipes, Euborellia (Anisolabis)
Anobiidae
                                                                                         Antennequesoma, holdfast structures in
    in Israel 2087
                                                                                               4414
in Kermadec Islands 2754
in Near East 2087
in dwellings, in West Germany 3106
Anobium punctatum
control of, insecticides for 2097, 5778,
                                                                                         antestiae, Gryon (see G. fulviventris)
Antestiopsis, parasites of, alternative hosts of
                                                                                                                                                                                     preying on, Arytaina genistae, in
Czechoslovakia 4648
                                                                                                                                                                                 Anthomyia pluvialis, complex of, taxonomy of 6014
                                                                                         Antestiopsis intricata control of
                                                                                                 economics of 499
                                                                                                                                                                                 Anthonomus
in West Germany 3106
in dwellings, in West Germany 3106
Anochetus, taxonomy of 2659
                                                                                                                                                                                     in Costa Rica 2666
in Mexico 2666
                                                                                                 insecticides for
                                                                                             in Uganda 499
                                                                                                                                                                                 Anthonomus grandis
adults of, release from aircraft of 2545
                                                                                             on coffee
Anoecia corni
in USSR 3376
                                                                                        damage caused by 499
effects of fertilizers on 499
effects of fungicides on 499
Antestiopsis orbitalis ghesquierei
control of
                                                                                                                                                                                      attractants for 2203
in USSR 3376
on grain crops, in Kazakhstan 3376
parasites of, in Kazakhstan 3376
Anoecia himalayensis
sp. nov., description of 1941
in India 1941
on grasses, in Himachal Pradesh 1941
on Petunia violacea, in Uttar Pradesh
                                                                                                                                                                                     bacteria in
                                                                                                                                                                                    bacteria in
in Arkansas 3546
in Tennessee 3546
control of 1276, 2526
biological 4602
cultural 4602
hand collecting for 5125
insecticides for 1150, 2513, 2517, 5125
mating disruption for 6057
timing of 2530
dispersal of 1274
electrophoresis techniques with 494
enzymes in 5321
                                                                                            economics of 499
insecticides for 499
in Uganda 499
on coffee
           1941
                                                                                                 damage caused by 499 effects of fertilizers on 499
Anoetus, on Carabidae, in Ontario 136
Anomala, on sugar-cane, in Japan 2859
Anomala abchasica
                                                                                                 effects of fungicides on 499
                                                                                         Anthaxia baconis
    in USSR 5577
on grasses, in Georgia (USSR) 5577
                                                                                             in India 2553
                                                                                             on Rosa moschata, in Himachal Pradesh
                                                                                                                                                                                     enzymes in 5321
high-insert mutant of 4814
Anomala albopilosa
biology of 2860, 2861
control of, insecticides for 2862, 2863
in Japan 2859, 2860, 2861, 2862, 2863
                                                                                                   2553
                                                                                         Anthemis nobilis (see Chamomile)
                                                                                                                                                                                     in Colombia 5125
                                                                                                                                                                                     in Honduras
                                                                                         Antheraea
                                                                                             biology of 2846
                                                                                                                                                                                     in Nicaragua 484
```

,		
nthonomus grandis contd.	Anthonomus pomorum contd.	Antifeedants
in USA 484, 1274, 1276, 2513, 2517,	on pear, in USSR 5064	for Anacridium melanorhodon, in Acacia
2526, 2528, 2530, 3042, 3546, 3554, 4602, 6057	Anthonomus rubi	6271
insecticides in, synergists for 1150	control of, insecticides for 5582, 6448 in Poland 6448	for insects, review 689 for Locusta migratoria
life-span in, effects of fractionated γ -	in Romania 5582	in Acacia 6271
irradiation on 1242	on strawberry, in Poland 6448	in grasses 3328
on cotton	Anthonomus signatus	in sorghum 5040
assessing infestations of 2530	control of	for Nilaparvata lugens, in rice 4516
forecasting infestations of 1276	insecticides for 364, 366	for Xanthogalerucella luteola, in Baccharis
in Colombia 5125 in Honduras 3557	timing of 366	halimifolia 4912 organotin, bibliography 3724
in Mississippi 2528	in Canada 364 in USA 366	substances tested as:
in North Carolina 2526	on strawberry	aristolochic acid 504
in South Carolina 2526	in Ohio 366	atranorin 4148
in Texas 3042, 4602	in Quebec 364	Azadirachta indica extracts 637, 3834,
in Virginia 2526 interactions of 484	Anthonomus varians	4494, 6203 Isocoma wrightii extracts 5996
interactions of carbohydrate balance	biology of 3059	Mentha pulegium oil 5996
and 2040	in USSR 3059	Momordica charantia seed oil 1368
resistance to 2513, 3554	on Picea, in USSR 3059	parthenin 3878
overwintering in 3042	on Pinus, in USSR 3059 Anthophila	plant extracts 4371
rearing of, equipment for 496, 2285,	in Japan 700	terpenoids 662 vulpinic acid 4148
2286, 2287, 2288, 2289, 4316	taxonomy of 700	zanthophylline 4173
sex pheromone of, biosynthesis of 740	Anthophora, preyed on by, Micromerus	Antigastra catalaunalis
sperm transfer in, effects of fractionated	erivanicus, in Turkey 3980	control of
γ-irradiation on 1242	Anthoseius, in France 2051	antifeedants for 1032
sterilisation of	Anthoseius oligadenus	insecticides for 1032, 4055 in India 4055
chemosterilants for 1049, 2545, 2726 γ-irradiation for 1049, 1242, 2545	sp. nov., description of 2051 in France 2051	in Nigeria 1032
taxonomy of, characters distinguishing A.	in Eriophyid galls, in France 2051	on sesame
hunteri and 8	Anthoseius rhenanus 2051	in Bihar 4055
traps for 2530	Anthrenus, rearing of, diets for 178	in Nigeria 1032
nthonomus grandis grandis	Anthrenus verbasci	Antigens
control of growth regulators for 2544, 5725	control of, insecticides for 2158 in Morocco 3068	of Autographa californica NPV 608 of Heliothis armigera NPV 608
insecticides for 1549	in bird skins 2158	of Heliothis zea NPV 608
sterile-insect release for 2544	in wool textiles 2158	of Plusiinae nuclear polyhedrosis viruses
emergence in, predicting of 2534	parasitised by, Laelius pedatus 6257	3692
fecundity in, effects of photoperiod on	preying on, Lymantria dispar, in Morocco	of Pseudoplusia includens NPV 608
3039 flight activity in, effects of sterilisation on	3068 Anthribidae, in Japan 4187	of Trichoplusia ni NPV 608 Antigua, cotton in, insect pests of 5121
3551	anthrisci, Dysaphis	antillarum, Tetranychus (see T. gloveri)
in USA 481, 482, 1549, 2037, 2534,	Anthriscus, Dysaphis anthrisci on, in	antiopa, Nymphalis
2544, 3039, 3294, 3555, 4605, 5725	Lithuania 1765	antiqua, Delia (Hylemya)
locomotion in, effects of temperature on	Anthriscus cerefolium, Cavariella aegopodii	antiqua, Hylemya (see Delia antiqua)
3294	on, in UK 5110	antiqua, Orgyia Antirrhinum majus, Chrysomela rossia on,
mating competitiveness in effects of chemosterilants on 2723	Anthriscus yellows virus	development of 5506
effects of γ -irradiation on 3757	Cavariella aegopodii, transmission of	Antisera (see Immune sera)
effects of sterilisation on 3551	2105	antonii, Helopeltis
on cotton	Heracleum sphondylium, in Scotland	anurus, Bathyplectes
forecasting infestations of 2534	Antibiotics in Galleria mellanella effects on	anxia, Phyllophaga
in Florida 482 in Mississippi 2037, 2544	Antibiotics, in Galleria mellonella, effects on gut flora of 5850	Anyphaena pectorosa in USA 4919
in South Carolina 481, 482	antica, Draeculacephala	in apple orchards, in Virginia 4919
in Texas 1549, 4605, 5725	Anticarsia gemmatalis	prey of 4919
overwintering in, effects of temperature on	activity in, diel rhythm of 98	Anysis, parasitising, Cerococcus ornatus, in
termination of 4605	Beauveria bassiana in, in Brazil 5672	Tamil Nadu 6577
oviposition in 4604 selection of sites for, model 3555	biology of 1517 control of 1286	Anysis alcocki in India 6577, 6581
penfluron in, metabolism of 3754	biological 3007, 5665	parasitising
preyed on by, Solenopsis invicta 4601	insecticides for 672, 3007	Acrocercops caeruleus, in Tamil Nadu
rearing of, diets for 1847	Entomophthora sphaerosperma in, in	6581
reproductive potential of, after	Brazil 5672	Cerococcus ornatus, in Tamil Nadu 6577
sperm competition in 1246	food-plants of 6522 hyperparasitised by, <i>Horismenus</i> spp., in	Anystis, preying on, Matsucoccus
sterilisation of	Colombia 5665	matsumurae, in Kiangsu Province 567
chemosterilants for 2723, 3551	in Brazil 2014, 3007, 5672	aonidiae, Aphytis
γ-irradiation for 2723, 3551	in Colombia 5665, 6522	Aonidiella aurantii
in nitrogen 3757	in USA 1286, 1484, 5665	attractants for, residual activity of 3504
traps for 481, 482, 2037 nthonomus hunteri	in multiple crop systems, model 6135 life history of 6522	control of biological 982, 1761, 2452, 2974, 4174,
sp. nov., description of 8	Nomuraea rilevi in	5949
in Mexico 8	in Brazil 5672	insecticides for 981, 1989, 2450, 2452,
on Hampea, in Mexico 8	in Colombia 6522	4402, 4568, 5080, 5627, 5638
nthonomus pedicularius	nuclear polyhedrosis virus in	integrated 5949
biology of 5064 control of 5064	in Brazil 5672 specificity of 609	mechanical removal for 1990 timing of 4338, 4402
in USSR 5064	on soyabean	in Australia 5949
on pear, in USSR 5064	assessing infestations of 2014	in Chile 4174
nthonomus pomorum	in Brazil 3007, 5672	in Cyprus 1761
biology of 5064	in Colombia 6522	in Egypt 4333, 4336, 4337, 4338, 4402
control of 5064	in USA 1484 parasitised by	in South Africa 981, 982, 1989, 1990, 2452, 2974, 4568, 5080
insecticides for 6465 in Bulgaria 1455	Euplectrus spp. 6523	
in Poland 3982, 6465	in Colombia 6522	in Turkey 6482 in USA 5638
in USSR 5064	E. puttleri, in Colombia 5665	insecticide resistance in, in South Africa
on apple	Microcharops spp., in Brazil 5672	1989, 4568
damage caused by 1455, 3982	Anticarsia irrorata	on Citrus in Arizona 5638
in Poland 6465	in Malaysia 431	in South Africa 2074

Aonidiella aurantii contd.	Apanteles chilonis contd.	Apanteles lacteicolor contd.
on Citrus contd. removal from fruit of 1990	in Japan 1258 in rice-fields, in Indonesia 3415	parasitising Acronicta spp., in England 4100
on orange	parasitising	Lymantria dispar 4107
in Egypt 4333	Chilo phragmitellus 1258	Apanteles liparidis
in South Africa 4568, 5080	C. suppressalis 1258	descriptions of 4107 distribution of 4107
parasites of, defence mechanisms against 2832	pests of rice, and biological control using, in Senegal 693	hosts of 4107
parasitised by	taxonomy of	in Poland 3592
Aphytis melinus, in Turkey 6482 A. riyadhi 2969	characters distinguishing A. flavipes and 6020	parasitising <i>Lymantria dispar</i> 4107
Habrolepis rouxi 2832	characters distinguishing A. sesamiae	in Poland 3592
population dynamics of 4336, 4337	and 6020	Apanteles longicauda
seasonal abundance of 4333, 4337, 4338 sex pheromone of, responses to isomers of	Apanteles cordoi sp. nov., description of 5507	in Canada 951 parasitised by, <i>Mesopolobus</i> spp., in
6731	in Argentina 5507	British Columbia 951
traps for 5638 Aonidiella citrina	parasitising, Acigona infusella, in Argentina 5507	parasitising, Eutromula pariana, in British Columbia 951
in Turkey 6482	Apanteles decorus	Apanteles lymantriae
parasitised by, Aphytis melinus, in Turkey	in Poland 2952	sp. nov., description of 4107
6482 sex pheromone of	parasitising, Coleophora spp., in Poland 2952	in Japan 4107 parasitising, Lymantria dispar, in Japan
identity of 4002	Apanteles diatraeae	4107
laboratory synthesis of 4002 Aonidiella orientalis	parasitising Acigona steniellus 6307	Apanteles maculitarsis in Nigeria 2986
in India 4493	Chilo infuscatellus 6307	parasitising, Lixus camerunus, in Nigeria
in Saudi Arabia 2969	Apanteles dignus	2986
on Tamarindus indica, in India 4493 parasitised by, Aphytis riyadhi, in Saudi	in USA 2501 parasitising, Keiferia lycopersicella, in	Apanteles marginiventris biology of 1512
Arabia 2969	California 2501	in Brazil 5672
Aonidiella taxus biology of 1591	Apanteles dilectus in Poland 2952	in USA 461 insecticides in, toxicity of 3547
in Japan 1591	parasitising, Coleophora spp., in Poland	parasitising
life tables for 1591	2952	Plathypena scabra 1512
on <i>Liquidambar formosana</i> , in Kyushu 1591	Apanteles flavicoxis sp. nov., description of 4107	in Arkansas 461 Plusia spp., in Brazil 5672
on Podocarpus macrophylla, in Kyushu	in India 4107	Apanteles melanoscelus
1591 parasites of, in Kyushu 1591	parasitising Lymantria dispar 4107	baculovirus in, characterisation of 1125 crossing of similar species with 4942
Aonidomytilus albus, on cassava 1023	L. obfuscata, in India 4107	descriptions of 4107
Aonidomytilus espinosai	Apanteles flavipes	distribution of 4107
food-plants of 4444 in Chile 4444	Eldana saccharina not parasitised by 1376	hosts of 4107 humidity as affecting 3293
parasites of, in Chile 4444	in Ghana, introductions of 4497	hyperparasites of, in USA 5792
Apamea anceps	in India 3910 parasitising	in Poland 3592 in USA 3100, 5792
control of, insecticides for 1673	Diatraea saccharalis	in oak woodland, effects of insecticides on
in USSR 1673	and biological control using	3100
Apamea devastatrix attractants for 1135	in Brazil 289 in Texas 1914	insecticide-contaminated hosts as affecting 4926
bibliography 3826	Scirpophaga incertulas, in West Bengal	parasites of
control of, mating disruption for 1135 in Canada 1135	3910 taxonomy of	competition among 1563 defence mechanisms against 4942
Apamea sordens	characters distinguishing A. chilonis	parasitised by
control of, insecticides for 296	and 6020	Anastatus japonicus 1564
in USSR 296 on wheat, in Kazakhstan 296	characters distinguishing A. sesamiae and 6020	A. kashmirensis 1564 Gelis tenellus 4647
Apanteles	Apanteles fluitantis	parasitising
humidity as affecting 3293 in rice-fields, effects of insecticides on	sp. nov., description of 5507 in Argentina 5507	Leucoma salicis 570 in Poland 3592
6411	parasitising, Acigona infusella, in	Lymantria dispar 570, 1564, 4107,
parasites of, in Yugoslavia 5792	Argentina 5507	4926, 4940
parasitised by, <i>Pediobius pyrgo</i> , in Iraq 516	Apanteles glomeratus descriptions of 6020	in New Jersey 3100 in Poland 3592
parasitising	host food consumption as affected by	Orgyia antiqua, in Poland 3592
Brachmia arotraea, in Orissa 3392 Cnaphalocrocis medinalis	6311 host granulosis virus transmitted by	recognition of diseased hosts by 4940 taxonomy of, Apanteles solitarius as
in Kyushu 1409	5856	synonym of 570
in Orissa 3392 Earias biplaga, in Ghana 2552	in Australia 1497 in Sweden 5841	temperature as affecting 3293 Apanteles ocneriae
Euproctis melania, in Iraq 516	in USA 1000	descriptions of 4107
Leucoma salicis, in Yugoslavia 5792	Nosema mesnili in, transmission of 5841	distribution of 4107
Lymantria dispar, in Yugoslavia 5792 Orgyia antiqua, in Poland 3592	parasitising Artogeia rapae 5856	hosts of 4107 parasitising, <i>Lymantria dispar</i> 4107
Rhyacionia duplana, in Scotland 5157	in Florida 1000	Apanteles ornigis
Stomopteryx subsectivella, in Maharashtra 5677	in New South Wales 1497 Pieris brassicae 6311	development in, effects of temperature on 1979
temperature as affecting 3293	in Sweden 5841	in Canada 1979
Apanteles adoxophyesi in Japan 3056	Apanteles indiensis sp. nov., description of 4107	Apanteles plutellae in India 4023
parasitising, Adoxophyes spp., in Japan	in India 4107	in Malaysia 1001
3056 Apanteles angustibasis	parasitising	parasitising
in Philippines 904	Lymantria dispar, in India 4107 L. obfuscata, in India 4107	Plutella xylostella in Gujarat 4023
parasitising, Cnaphalocrocis medinalis, in	Apanteles ippeus	in West Malaysia 1001
Philippines 904 Apanteles cacoeciae	in Australia 1497 parasitising, Plutella xylostella, in New	pupae of, cool storage of 3518 seasonal abundance of 4023
in USA 2825	South Wales 1497	Apanteles popularis
parasitising, Epiblema scudderiana, in	Apanteles lacteicolor	food-shortage of host as affecting 6323
Pennsylvania 2825 Apanteles chilonis	descriptions of 4107 distribution of 4107	parasitising, Tyria jacobaeae 6323 Apanteles porthetriae
coldhardiness in 1258	hosts of 4107	descriptions of 4107

Subject Index		88
Apanteles porthetriae contd.	Aphelinus asychis	Aphidius
hosts of 4107	mummies caused by, identifying of 3882	in Eruca sativa fields, in Punjab 3542
in Poland 3592	parasitising	parasitising, grain aphids, in England
parasitising	Macrosiphum euphorbiae, and	5519
Lymantria dispar 4107 in Poland 3592	biological control using, in France	Aphidius absinthii
Apanteles quadratus	2032	in Mongolia 3348
sp. nov., description of 1950	Myzus persicae, and biological control using, in France 2032	in North Korea 3347 Aphidius ambiguus (see Lysiphlebus
in Pakistan 1950	Aphelinus fuscipennis, taxonomy of,	ambiguus)
parasitising, Pectinophora gossypiella, in	synonym of Aphytis diaspidis 2841	Aphidius camerunensis
Pakistan 1950	Aphelinus mali	in Angola 2854
panteles ruficrus	in India 5071	parasitising, Sitobion hillerislambersi, in
in Australia 1921	in USSR 3376	Angola 2854
in Greece 1966	in apple orchards, effects of insecticides	Aphidius equiseticola, taxonomy of,
parasitising 6356	on 5071	synonym of A. rhopalosiphi 1177
Agrotis spp. 6356	parasitising	Aphidius ervi in Japan 1426
Artogeia rapae 2335 Autographa gamma 2335	Eriosoma lanigerum, in Sikkim 5071 grain aphids, in Kazakhstan 3376	in UK 1388
Chrysodeixis chalcites, and biological	Aphelinus nigritus	in USSR 3376
control using, in New Zealand	in USA 2917	parasites of, in England 1388
4823	mummies caused by, identifying of 3882	parasitising
Mamestra brassicae 2335	parasites of, in Texas 2917	Acyrthosiphon kondoi, in Japan 142
Mythimna spp., in Queensland 1921	parasitising	grain aphids
Noctua spp., in Greece 1966	Rhopalosiphum maidis, in Texas 2917	in England 1388
Noctuidae, and biological control using, in Western Australia 6356	Schizaphis graminum, in Texas 2917 Aphidan (see Phosphorodithioic acid, S-	in Kazakhstan 3376
Pieris brassicae 2335	[(ethylsulfinyl)methyl] O,O-bis(1-	Aphidius gifuensis in Japan 1426
Apanteles schaeferi	methylethyl) ester)	parasitising, Acyrthosiphon kondoi, in
sp. nov., description of 4107	Aphidecta obliterata	Japan 1426
in Japan 4107	biology of 791	Aphidius matricariae
parasitising, Lymantria dispar, in Japan	descriptions of 791	biology of 200
4107	distribution of 791	host fecundity as affected by 5482
Apanteles schoenobii	Aphidencyrtus aphidivorus	hosts of 4979
in India 3910	hyperparasitising, Toxoptera aurantii, in	in India 4979
parasitising, Scirpophaga incertulas, in West Bengal 3910	Greece 6302 in Greece 6302	parasitising, Myzus persicae 200, 3808, 5482
Apanteles scutellaris	in USA 2917	Aphidius nigripes
in USA 2501	parasitising	descriptions of 2675
parasitising, Keiferia lycopersicella, in	Aphelinus nigritus, in Texas 2917	larval development in 2675
California 2501	Lysiphlebus testaceipes, in Texas 2917	Aphidius picipes
panteles sesamiae	Aphididae	in Mongolia 3348
in Ghana 4497	control of	in UK 1388
parasitising	biological 4174 insecticides for 3019, 3816	parasites of, in England 1388
Acigona steniellus 6307 Chilo infuscatellus 6307	reflective mulches for 1530	parasitising, grain aphids, in England 1388
Sesamia spp., in Ghana 4497	in India 1941	Aphidius rhopalosiphi, taxonomy of,
taxonomy of	in Manitoba 144	Aphidius equiseticola as synonym of
characters distinguishing A. chilonis	in Uttar Pradesh 4861	1177
and 6020	in grassland, in Irish Republic 3436	Aphidius rosae
characters distinguishing A. flavipes	in urban areas, in West Germany 4300	in India 2820
and 6020	on barley, effects of undersowing on	parasitising, Macrosiphum rosae, in Indi
Apanteles subandinus, parasitising, Phthorimaea operculella, and biological	3433 on cotton, in Egypt 3816	2820 Aphidius smithi
control using, in New Zealand 4045	on Cyperaceae, in India 286	host food budget as affected by 1879
Apanteles tedellae	on fruit crops, in Poland 3982	illustrations of 29
aggregation in 5148	on Galinsoga, in Americas 4487	larval development in 29
biology of 3597	on grain crops	parasites of, avoidance of parasitism in
in Denmark 3597, 5148	damage caused by 6350	2824
parasitised by, Mesochorus sylvarum, in	in UK 6736	parasitised by
Denmark 3597	surveillance of 2884	Alloxysta megourae 5478
parasitising, <i>Epinotia tedella</i> , in Denmark	on legumes, in Australia 2929 on Lupinus, in Western Australia 4533	Dendrocerus carpenteri 2824 parasitising
3597, 5148 seasonal abundance of 3597	on Poaceae, in India 286	Acyrthosiphon pisum 29, 1879, 2824
panteles telengai	on potato	4995, 5478
in USSR 2818	damage caused by 3539	and biological control using, in Chil
parasitising, Agrotis segetum, in	in Rajasthan 3019	4174
Tadzhikistan 2818	predators of	superparasitism by 4995
patele alni (see Acronicta alni)	in England 5025	Aphidius urticae
peiba, Amblycerus spp. on 1584	in Tamil Nadu 3558	hosts of, functional responses to 2886
Apelaunothrips indicus in India 5468	preyed on by, Chrysopa ventralis, in Bulgaria 6306	in UK 1388 parasites of, in England 1388
preyed on by, Anthocoridae, in India	taxonomy of, chromosomes as characters	parasitising
5468	for 3728	grain aphids, in England 1388
Aphaenogaster, sting apparatus in 2809	Aphidiidae	Hyalopteroides humilis 2886
Aphaenogaster rudis	in Mongolia 3348	Aphidius uzbekistanicus
colony movement in 552	in North Korea 3347	hosts of, functional responses to 2886
in USA 552	in forests, communities of aphids and	in UK 1388
phalara, taxonomy of 1181	562	parasites of, in England 1388
Aphalarini, taxonomy of 1179	parasitising	parasitising
Aphanostigma piri biology of 2965	Aphidoidea in Central Asia 1177	grain aphids, in England 1388 Hyalopteroides humilis 2886
control of, insecticides for 2965	in Kazakhstan 2342	Metopolophium dirhodum 2886
in France 2965	potato aphids, in France 5693	aphidivorus, Aphidencyrtus
on pear, in France 2965	taxonomy of 1177	Aphidoidea
Aphelia paleana	Aphidiinae	clones of, variation within 6044
attractants for 3235	genitalia in 5308	control of
in Czechoslovakia 3235	venom apparatus in 2672	biological 4984, 5475
Aphelinidae	aphidimyza, Aphidoletes	book 6266 insecticides for 220, 661, 1450, 2462,
in forests, communities of aphids and	Aphidina, genera in, key to 712 Aphidinae	2951, 3194, 4383, 5601, 5708
taxonomy of, characters for 1189	in Sikkim 3777	in Armenia 801
Aphelinus, parasitising, Melanaphis sacchari,	in West Bengal 3777	in British Columbia 4178
in Uttar Pradesh 290	aphidis, Pachyneuron	in Bulgaria, book 6266

```
Aphis contd.
                                                                                                                                                                                                                                                         Aphis craccivora contd.
 Aphidoidea contd.
      in England 4404
in Hawaii 4206
                                                                                                                                  taxonomy of, hemolymph proteins as
                                                                                                                                                                                                                                                              on cotton
                                                                                                                                                                                                                                                                    distribution pattern of 4339
                                                                                                                                          characters for 1845
                                                                                                                                   tended by, Formicidae, in Manitoba
       in Poland 3307
                                                                                                                                                                                                                                                                    effects of neighbouring crops on 4339
       in Portugal 3783
                                                                                                                                                                                                                                                                    in Greece 6302
      in Spain 3780
                                                                                                                                                                                                                                                              on lucerne, in Japan 1426
                                                                                                                             Aphis acetosae, taxonomy of, hemolymph proteins as characters for 1845
      in stored potatoes, in Kenya 4181 insecticides in, selectivity of 651 lipids in 1815
                                                                                                                                                                                                                                                              on Phaseolus
                                                                                                                                                                                                                                                                   effects of plant constituents on effects of pubescence on 4340
                                                                                                                             Aphis armoraciae
                                                                                                                                  in Canada 5297
      in France 5601
in Norway 5605
on Capsicum, in Austria 5708
on cucumber, in UK 6508
on forest trees, communities of parasites
and 562
                                                                                                                                                                                                                                                              on soyabean
in Egypt 1013
in Illinois 6188
                                                                                                                                  on Helianthus 5297
                                                                                                                                   on Zea 5297
                                                                                                                                                                                                                                                             in Illinois 6188
on Vicia faba, in India 2820
on Vigna radiata
in Bangladesh 433
in Missouri 435
resistance to 445, 448, 450
on Vigna unguiculata
effects of plant constituents on
effects of pubescence on 4340
parasitised by
                                                                                                                                   taxonomy of 5297
                                                                                                                             Aphis barberae
                                                                                                                                  sp. nov., description of 6017 in Canada 6017
                                                                                                                                  on Arctium minus, in Manitoba 6017
on Tropaeolum majus, in Manitoba 6017
on Vicia faba, not developing 6017
      on fruit trees, effects of 2437
on grain crops, population dynamics of
2165
                                                                                                                             Aphis cirsiiacanthoidis (see A. fabae
       on Ligustrum vulgare, in USSR 6585
                                                                                                                                     cirsiiacanthoidis)
      on maize, effects of herbicides on 5028 on pear, in France 5601 on Pinus, in South Africa 2597 on Poa annua, in North America 2856
                                                                                                                                                                                                                                                              parasitised by
                                                                                                                             Aphis citricola
                                                                                                                                                                                                                                                                    Trioxys indicus 2839, 5100
in Uttar Pradesh 5108
                                                                                                                                  citrus tristeza virus in, transmission of
                                                                                                                                                                                                                                                               predators of
                                                                                                                                                                                                                                                                   effects of insecticides on 1712 in India 2820
                                                                                                                                  control of
       on potato
            in Jammu and Kashmir 5691
in Poland 2462
                                                                                                                                        insecticide-fungicide mixtures for 4613
                                                                                                                                 insectiode-fungicide im
insecticides for 941
soaps for 1063
in India 401, 4979
in Israel 5621
in Italy 941, 3492, 5592
in Japan 5082
in USA 1063, 4613
                                                                                                                                                                                                                                                              preyed on by
                                                                                                                                                                                                                                                              Coccinella septempunctata 5593
Micraspis discolor 6326
reproductive rate in 6529
      on Ribes aureum, in USSR 6585
      on Robinia pseudacacia, in USSR on street trees, in Ukraine 5183
                                                                                               6585
       on sugar-beet, in Egypt 2489
                                                                                                                                                                                                                                                               soyabean mosaic virus in, transmission of
      on sugar-beef, in Egypt 2489
on wheat
in Egypt 3371
in Hungary 2868
parasities of, in Austria 4451
parasitised by
Aphidiidae
                                                                                                                                                                                                                                                                      6188
                                                                                                                                                                                                                                                              tomato extracts in, toxicity of 4048 yam mosaic virus in, transmission of 3028
                                                                                                                                  on apple, distribution pattern of 3471, 5599
                                                                                                                                  on Chrysanthemum, in Florida 4613
                                                                                                                                                                                                                                                         Aphis fabae
                                                                                                                                                                                                                                                              pais rause:
beet mild yellowing virus in, transmission
of 1524, 1525, 5685
beet mosaic virus in, transmission of
                                                                                                                                  on Citrus
      in Central Asia 1177
in Kazakhstan 2342
parthenogenesis in 4816
plant viruses in
                                                                                                                                  in Israel 5621
in Italy 941, 3492
in Japan 5082
on grapevine, damage caused by
on lemon, in Karnataka 401
                                                                                                                                                                                                                                                                      1524
                                                                                                                                                                                                                                                              beet yellows virus in, transmission of 1524, 1525, 5685
            transmission of 6501
review 5437
                                                                                                                                  on mandarin
                                                                                                                                                                                                                                                              control of
      population biology of, review 4274
predators of, in Austria 4451
preyed on by, Carpodacus erythrinus, in
Finland 2264
                                                                                                                                        damage caused by 401 in Karnataka 401
                                                                                                                                                                                                                                                                    cultural
                                                                                                                                                                                                                                                                    inert dusts for 4581 insecticides for 464, 652, 657, 1525, 1871, 5089, 5669, 5681, 5959, 6530,
                                                                                                                                  on Tridax procumbens, in Karnataka 401
                                                                                                                                  on walnut, in Italy 5592
overwintering in 5082
parasitised by, Trioxys nepalensis, in
Meghalaya 4979
seasonal abundance of 401
       settling rhythm in 2738
                                                                                                                                                                                                                                                                            6533
       taxonomy of, enzymes as characters for
                                                                                                                                                                                                                                                                    soaps for 1063
                                                                                                                                                                                                                                                              energy budget of 4031
eyes in 4740
               2195
      tended by, Formicidae, in Manitoba
4971
                                                                                                                                                                                                                                                            eyes in 4740
illustrations of 1524
in Austria 1525, 1755
in Belgium 464, 1524, 6533
in Canada 6016
in Czechoslovakia 5669
in France 3530
in Greece 6302
4971
traps for 379
Aphidoletes abietis
in Poland 3465
preyed on by, Orius spp., in Poland 3465
preying on, Hyalopterus pruni, in Poland
3465
                                                                                                                                  Triplosporium fresenii in, development of infection with 5621
                                                                                                                            Aphis compositae (see A. fabae solanella)
Aphis craccivora
bean yellow mosaic virus in, transmission
of 442
                                                                                                                                                                                                                                                            in Greece 6302
in Poland 1871, 3519, 4040, 4041
in Switzerland 5681, 5959, 6530
in UK 5685
in USA 1063
                                                                                                                                                                                                                                                              in Greece 6302
       seasonal abundance of 3465
                                                                                                                                  bean yellow stipple virus in, not transmitted 4034
Aphidoletes aphidimyza
biology of 5953
descriptions of 5190, 5953
                                                                                                                                  citrus tristeza virus in
                                                                                                                                        not transmitted 2978
      development in, effects of temperature on 5381
                                                                                                                                        transmission of 2103
                                                                                                                                                                                                                                                              insecticide resistance in 1524
                                                                                                                                                                                                                                                             detecting and measuring of 3709 on bean, damage caused by 3519 on beet, in Austria 1755 on cotton, in Greece 6302
                                                                                                                                  control of
      in Finland 5953
in Poland 3465
                                                                                                                                        insecticides for 1712, 4339 integrated 3046
       in birch catkins 5190
                                                                                                                                  cucumber mosaic virus in, transmission of
       larval development in, termination of
                                                                                                                                          435
                                                                                                                                                                                                                                                              on pea, damage caused by
on potato, in Austria 1755
                                                                                                                                                                                                                                                                                                                                   3519
               2338
                                                                                                                                  groundnut mottle virus in, transmission of
preyed on by, Orius spp., in Foland origing on Aphididae, and biological control using, in Finland 5953

Aphis pomi, in Poland 3465

Dysaphis plantaginea, in Poland 3465

Myzus persicae 2338, 3808

Phorodon humuli, in Poland 3465
seasonal abundance of 3465

Aphidoletes thompsoni, preying on, Adelges piceae, and biological control using, in British Columbia 6636

anhidum. Dendrocerus
       preyed on by, Orius spp., in Poland 3465
                                                                                                                                 5676
hyperparasitised by, Alloxysta spp., in
Uttar Pradesh 5108
in Bangladesh 433
in Egypt 1013, 4339, 4358
in Greece 6302
in India 2820, 5108
in Japan 1426
in Taiwan 445
in USA 435, 6188
mung bean green mosaic virus in,
transmission of 443
mung bean leaf cripkle virus in.
                                                                                                                                          5676
                                                                                                                                                                                                                                                              on sugar-beet
                                                                                                                                                                                                                                                                    damage caused by 4041 effects of beet mosaic virus on 4749
                                                                                                                                                                                                                                                            effects of beet mosaic virus on 474
effects of herbicides on 3014
forecasting infestations of 3530
in Austria 1525
in Belgium 464, 1524, 6533
in Poland 1871, 4040
in UK 5685
on Tropaeolum majus, not developing
6016
                                                                                                                                                                                                                                                              of the control of the
                                                                                                                                  mung bean leaf crinkle virus in,
 aphidum, Dendrocerus
 Áphis
                                                                                                                                          transmission of 441
      control of, insecticides for 3560
on apple, in Virginia 4919
on tobacco, in North Carolina 3560
on Vigna radiata, varietal preferences of
                                                                                                                                  mung bean leaf curl browning virus in,
transmission of 443
                                                                                                                                                                                                                                                              phagostimulants for 1024
resistance to 2009
phagostimulants for, phenols as 2735
population dynamics of 4040
preyed on by, Coccinella septempunctata
246
                                                                                                                                   mung bean little leaf virus in, transmission
                                                                                                                                          of 443
                                                                                                                                  mung bean mosaic virus in, transmission of 442
       predation of 2817
                                                                                                                                 mung bean yellow mosaic virus in,
transmission of 443
on Cajanus cajan, in Uttar Pradesh 5108
on Citrus, in Greece 6302
      preyed on by
Araneae 4919
Chrysopa rufilabris 4245
root-feeding, in Canada 5297
                                                                                                                                                                                                                                                              reproduction in, effects of virus-infected
food-plants on 4749
taxonomy of 3319
```

11.01		
phis fabae contd.	Aphis gossypii contd.	Aphomia gularis (see Paralipsa gularis)
taxonomy of contd.	on okra, in Karnataka 1492	Aphrastasia pectinatae (see Adelges
characters distinguishing A. barberae	on soyabean, in Egypt 1013	pectinatae)
and 6017	on squash, resistance to 5660	Aphrastasia pectinatae ishiharai (see
hemolymph proteins as characters for	on sugar-beet 467	Adelges pectinatae)
1845	in Spain 6532	Aphthona euphorbiae
thiotepa in, effects of 4820	on wheat, in Brazil 5527	in Poland 3702
traps for 3530	on yam, in Togo 3029	on flax, damage caused by 3702
group of, chromatography for	overwintering in 5082	Aphycus mesasiaticus
distinguishing members of 3319	parasitised by	sp. nov., description of 4981
phis fabae cirsiiacanthoidis, taxonomy of	Lysiphlebus fabarum, in Greece 6302	in USSR 4981
3319	L. testaceipes, in Italy 3492	parasitising, Peliococcus mesasiaticus, in
phis fabae solanella	Trioxys angelicae, in Greece 6302	Turkmenia 4981
in Egypt 4358	predators of, effects of insecticides on	
in India 2820	1712	Aphytis
on Quercus, in India 2820	preyed on by	hosts of, rearing of 2773
preyed on by, Oenopia spp., in India	Aphidoletes aphidimyza 5953	parasitised by, Tetrastichus spp., in
2820	Chrysopa carnea 3040	Taiwan 2046
taxonomy of 3319	Cycloneda sanguinea, in Barbados	parasitising
phis forbesi	5121	Aonidiella taxus, in Kyushu 1591
in East Germany 2939		Carulaspis spp., in Pennsylvania 2068
	Micraspis discolor 6326	Coccidae, and biological control using,
on strawberry, in East Germany 2939	reproduction in, effects of virus-infected	in Greece 5622
phis frangulae gossypii (see A. gossypii)	food-plants on 4749	
phis glycines	tomato extracts in, toxicity of 4048	Fiorinia externa, in Connecticut 3608
bean yellow mosaic virus in, transmission	2-tridecanone in, toxicity of 5115	Hemiberlesia lataniae, in Florida 514
of 442	watermelon mosaic virus in, transmission	Pseudaonidia duplex, in Taiwan 2046
mung bean mosaic virus in, transmission	of 1502, 1503	Quadraspidiotus perniciosus, in USSR
of 442	yam mosaic virus in, transmission of	4980
phis gossypii	3028	taxonomy of
beet yellows virus in, transmission of	yam viruses in, transmission of 3029	book 2841
6532	Aphis hederae, taxonomy of 3319	characters for 1196, 1197
biology of 2233	Aphis medicaginis auct. (see A. craccivora)	Aphytis aonidiae 3608
citrus tristeza virus in, transmission of	Aphis pomi	biology of 1347
2103, 2978, 5629	biology of 5604	in USA 1346
control of	control of 5604	parasitising
for virus control 1485	insecticides for 1456, 1976, 6467	Quadraspidiotus perniciosus 1347
growth regulators for 2645	in India 401	in California 1346
insecticide-fungicide mixtures for 4613	in Italy 209	taxonomy of, Aphytis citrinus as synony
insecticides for 414, 1492, 1503, 1712,	in Poland 3465, 6467	of 2841
2511, 2645, 3038, 3819, 4339, 5115,	in Switzerland 1456	Aphytis bovelli, taxonomy of, synonym of
5126, 6532, 6563, 6695	in UK 5604	A. hispanicus 2841
integrated 3046	in USA 1976	Aphytis chilensis
reflective mulches for 1503	in USSR 1556, 5183	biology of 6495
cucumber mosaic virus in, transmission of,	on apple	descriptions of 1195
strain differences in 5099	in Ohio 1976	development in, effects of temperature or
in Barbados 5121	in Poland 6467	1195
in Brazil 5527	in Switzerland 1456	in Chile 4570
	in UK 5604	in Greece 4008, 6495
in Egypt 1013, 3819, 4339, 4358 in Finland 5953	on Citrus, in India 401	
		in olive groves, effects of road dust on 4008
in Greece 6302	on ornamental shrubs, in USSR 1556	
in Honduras 3557	on street trees, in Ukraine 5183	parasitising
in India 1492, 3038, 5118, 5126, 5660,	preyed on by	Aspidiotus nerii
6563, 6695	Aphidoletes aphidimyza 3465	in Chile 4570
in Italy 3492	Episyrphus balteatus 3472	in Crete 4008, 6495
in Japan 1502, 5082	Orius minutus 3473	group of, taxonomy of 1196
in Kenya 1503	Aphis rubicola, sexual forms of, effects of	Aphytis chrysomphali, group of, taxonomy
in Spain 6532	temperature on production of 5586	of 1196
in Thailand 2539	Aphis sacchari (see Melanaphis sacchari)	Aphytis citrinus, taxonomy of, synonym of
in Togo 3029	Aphis sambuci	A. aonidiae 2841
in UK 6508	taxonomy of 3319	Aphytis diaspidis
in USA 1488, 2511, 4613	hemolymph proteins as characters for	in Chile 4444
insecticide bioassy using 5707	1845	parasitising, Aonidomytilus espinosai, in
kinoprene in, effects of 2645	Aphis solanella (see A. fabae solanella)	Chile 4444
mung bean leaf crinkle virus in,	Aphis spiraecola (see A. citricola)	taxonomy of, Aphelinus fuscipennis as
transmission of 441	Aphis verbasci, in USSR 801	synonym of 2841
on Capsicum annuum, in Tamil Nadu	Aphodiidae, in dung, in Bangladesh 4403	Aphytis fisheri, taxonomy of, characters
5118	Aphodius, in cattle dung, in Finland 1303	distinguishing A. riyadhi and 2969
on Chrysanthemum, in Florida 4613	Aphodius fimetarius, in Tunisia 4852	Aphytis hispanicus, taxonomy of, Aphytis
on Citrus	Aphodius granarius	bovelli as synonym of 2841
in Italy 3492	in Canada 5046	Aphytis holoxanthus, taxonomy of,
in Japan 5082	in Tunisia 4852	characters distinguishing A. riyadhi and
on cotton	in sports turf, in Ontario 5046	2969
distribution pattern of 4339	life-cycle of 5046	Aphytis lingnanensis
effects of fertilizers on 3038	Aphodius lividus	fecundity in, effects of temperature on
effects of neighbouring crops on 4339	in Egypt 4475	2833
effects of plant growth regulators on	in dung, in Egypt 4475	sex ratio in, effects of temperature on
4074	Aphodius rufipes	2833
in Barbados 5121	in Denmark 1944	group of, taxonomy of 1196
in Greece 6302	in pastures, removal of cattle dung by	Aphytis maculicornis
in Honduras 3557	1944	in Greece 3799
in Punjab 6563	Aphodius tasmaniae	parasitising, Parlatoria oleae, in Greece
in Tamil Nadu 5126	biology of 1948	3799
in Thailand 2539	control of	Aphytis melinus
in USA 2511	biological 5951	biology of 6482
varietal preferences of 3819	insecticides for 1948	fecundity in, effects of temperature on
on courgette, in Kenya 1503	fungi in, in New South Wales 1948	2833
on cucumber	in Australia 1948, 5951	in Turkey 6482
	in pastures, in New South Wales 1948	parasitising
effects of cucumber mosaic virus on 4749	Apholate (2,2,4,4,6,6-hexakis(1-aziridinyl)-	Aonidiella aurantii
		and biological control using, in Chil
in Kyushu 1502	2,2,4,4,6,6-hexahydro-1,3,5,2,4,6-	4174
in UK 6508	triazatriphosphorine)	in Turkey 6482
resistance to 5660	in Dysdercus koenigii, effects on hemocytes of 4819	A. citrina. in Turkey 6482

parasitising contd.	using, in Chatham Islands 4857	parasitised by
Aspidiotus nerii, and biological control	Apion vorax	Acarapis externus, in New Zealand 3840
using, in Chile 4570 Chrysomphalus dictyospermi, in Turkey	biology of 425 control of 425	A. woodi 1878
6482	in UK 425	mites
Hemiberlesia lataniae, and biological	Apis	in Switzerland 4709
control using, in Chile 4570	breeding of 4803 natural enemies of, book 4441	in USSR 602 Pseudohypocera kerteszi 4457
sex ratio in, effects of temperature on 2833	parasites of, bibliography 4978	Varroa jacobsoni 252, 253, 2612, 62
taxonomy of, characters distinguishing A.	pesticide poisoning of, bibliography 4978	6298, 6300, 6301
riyadhi and 2969	predators of, bibliography 4978	in Europe 4440
Aphytis mytilaspidis	Apis cerana	in USSR 3863 parathion-methyl in, toxicity of 3718
in France 5608 in USSR 2949, 4980	in India 2280 on cauliflower, sampling of 2280	pesticide poisoning of, indemnity claims
parasitising	Varroa jacobsoni on, resistance to 4803	for 2331
Epidiaspis leperii, in France 5608	Apis florea	phenyl methylcarbamates in, anticholinesterase activity and toxici
Lepidosaphes malicola, in Armenia	in India 602	of 680
2949 Quadraspidiotus perniciosus, in USSR	in Thailand 602 parasitised by	preyed on by, Diogmites missouriensis,
4980	Euvarroa sinhai	Arkansas 2336 preying on, Galleria mellonella 3830
group of, taxonomy of 1196	in India 602	protection from insecticides of 1877,
Aphytis notialis	in Thailand 602	2144
in Chile 4570	Apis mellifera	pyrethroids in, toxicity of 5958 Spiroplasmataceae in
Aspidiotus nerii, in Chile 4570	Acarapis woodi on, resistance to 4803 acaricides in, toxicity of 1710	in Corsica 6668
Hemiberlesia lataniae, in Chile 4570	acarine disease in, in Scotland 4175	in Morocco 6668
Aphytis proclia	aflatoxins in, toxicity of 6678	sulfenyl-propoxur in
in USSR 4980 parasitising, Quadraspidiotus perniciosus,	Ascosphaera apis in, not affected by citral	metabolism of 2139 penetration of 2139
in USSR 4980	3683 Bacillus larvae in, diagnosis of 1624	taxonomy of, characters distinguishing
group of, taxonomy of 1196	B. moritai in, no effects from 1629	Vespula germanica and 4977
Aphytis riyadhi sp. nov., description of 2969	B. sphaericus in, no effects from 1629	Apis mellifera ligustica, queen induction in role of JH in 1165
in Saudi Arabia 2969	B. thuringiensis in, not pathogenic 627	Apium graveolens (see Celery)
parasitising	breeding of 4804	Apium sellowianum, insecticidal activity of
Aonidiella aurantii 2969	for parasite resistance 4803 butonate in, not toxic 1702	extracts of 3716
A. orientalis, in Saudi Arabia 2969 Aphytis theae	cold tolerance in 6115	Apocephalus tenuipes in USA 4499
in India 1057	cuticle in, alkenes 5422	parasitising, Pheidole dentata, in Florida
parasitising, Fiorinia theae, in Assam	detecting contamination of honey by	4499
1057 Aphytis vittatus, group of, taxonomy of	fragments of 3123 dimethoate in, toxicity of 3336	Apocheima hispidaria biology of 1452
1197	embryonic development in, effects of	control of 1452
Aphytis yasumatsui, taxonomy of, characters	insect growth regulators on 2140	descriptions of 1452
distinguishing A. riyadhi and 2969 apicalis, Taylorilygus (see T. pallidulus)	enzymes in 680, 3257 follicular multiplication virus in 6299	in Bulgaria 1452, 1454 on apple, in Bulgaria 1452, 1454
apicalis, Trioza	food of, labelling of 5398	seasonal abundance of 1454
apicata, Rhacodinella	food-searching behaviour in 2251, 3296	Apocrita, in North America, book 3309,
apicifer, Archytas Apiculture, in Switzerland 4709	fungicides in, toxicity of 1710 growth regulators in, degradation of	3310 Apodemus sylvaticus, preying on, Cephalc
Apidae	3257	lariciphila, in Wales 5159
caste differentiation in 5451	herbicides in, toxicity of 1710	Apoderus blandus
division of labour in 5451 in anthropogenic environments, in France	Hirsutella thompsonii in, no effects from 1629	in India 2449 on <i>Litchi chinensis</i> , in Uttar Pradesh
123	in Australia 6556	2449
preyed on by, Syrphidae 2312	in Canada 6617	Apoderus scitulus
sex ratio in 3846 territoriality in 5451	in France 3851, 6668 in Morocco 6668	in India 281 on cinnamon, in India 281
volatile chemical signals in, complexity of	in New Zealand 3840	Apoidea
1732	in Papua New Guinea 4439	in oak forests, not affected by Bacillus
Apigenin (see 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-(4-hydroxyphenyl)-)	in Poland 5048 in Switzerland 4709	thuringiensis 3098 pesticides in, toxicity of 1690
Apion, in Kansas 1835	in UK 4175	protection from pesticides of 1687, 168
Apion apricans	in USA 2331, 2336	1689
control of, threshold for 5963 in Poland 3519	in USSR 602, 3863 in West Germany 4440	Apomyelois ceratoniae (see Ectomyelois ceratoniae)
in UK 5575	in lucerne fields, effects of insecticides on	Aponychus corpuzae
in USSR 5963	5048	in Japan 5018
on pasture plants, in UK 5575	in safflower fields, in Victoria 6556	life history of 5018
on Trifolium damage caused by 3519	insect viruses in, no effects from 1629 insecticide hazards to, review 678	on bamboo, in Japan 5018 Apoprogonidae, taxonomy of 5295
in USSR 5963	insecticides in	Aporia crataegi
Apion candyae	poisoning by 4175 toxicity of 1710, 1867, 4709	control of, biological 2616
sp. nov., description of 285 in El Salvador 285	mite control on 3863	in USSR 1556, 2946, 6585 on fruit trees, in USSR 2946
on Erythrina berteroana, galls of 285	acaricides for 3851, 6298, 6301	on ornamental shrubs, in USSR 1556
Apion corchori	acaricides in sugar syrup for 3840	Aporophlebus striaticeps
control of, insecticides for 1051, 6571 in India 1051, 3559, 6571	heat treatment for 6300, 6301 hive destruction for 3851	parasitising, Nezara spp. 5288 taxonomy of, transferred from
on jute	treatment chamber for 6297	Microphanurus 5288
in India 3559	mites in hives of, in USSR 602	Apparatus .
in West Bengal 1051, 6571 outbreaks of, weather conditions favouring	Nosema apis in, in Papua New Guinea 4439	activator system for operating small ball valves 2285
3559	nuclear polyhedrosis virus in, not	actograph for insects 172, 3320
parasites of, in West Bengal 1051	pathogenic 6617	cold stage for stereomicroscopes 2278
Apion dichroum	on brussels sprouts, pollination by 4578	constant-temperature chamber 164
in UK 5575 on pasture plants, in UK 5575	parasites of control of 2612, 4440	dissection knives for entomology 2274 emergence cage for Anthonomus grandi
Apion trifolii	diagnosis of 1878, 3851	2289
in UK 5575	in Papua New Guinea 4439	for demonstrating sweep-net contents to

lojeet Index		07
paratus contd.	Apple contd.	Apple contd.
for exposing insects to parasites 4871	Ceratitis capitata on, in Ukraine 5595	Malacosoma americanum on, in New
for extracting arthropods from plant	Choristoneura rosaceana on, in New York	York 2961
material 4323	4923	Microthrix inconspicuella on, developme
for extracting insects from stored products	Coccidae on, in Egypt 1894	of 4482
3668	Coleophora spp. on, in Poland 2952	mites on, in Iowa 954
for injecting liquids into arthropods 1314	Coleoptera on, in USSR 5064	Oecanthus nigricornis on, rearing of 93
for investigating orientation of walking	Conopia myopaeformis on	Orgyia antiqua on, in Poland 2445
insects 6133	in Belgium 3806	O. gonostigma on, in USSR 3464
for mass release of Trichogramma 5250	in Netherlands 1980	Orthosia hibisci on
for mounting liquid-preserved preparations	in Poland 3479, 6466	in New York 4914
on pins 3325 for placing insect eggs on larval media	Conotrachelus nenuphar on, in Quebec 959	in Quebec 1439
2288	Ctenopseustis obliquana on, in New	Ovatus malisuctus on, distribution patter
for sampling bark-frequenting arthropods	Zealand 5888	of 3471, 5599
1848	Cydia molesta on, assessing infestations of	Pandemis cerasana on, in Italy 4551
for separating invertebrates from leaf litter	5073	P. heparana on, in British Columbia 95
3793	C. pomonella on	Panonychus ulmi on
for sorting specimens from sweep nets	distribution pattern of 391	distribution pattern of 6238
1855	forecasting infestations of 2442, 3187	in Massachusetts 4552
for stacking and conveying trays of insect	in Austria 1755	in New York 376
diets and eggs 2286	in British Columbia 390	in Ontario 2954
for testing attraction of parasites to host	in Bulgaria 2960, 2962	in Poland 3475
kairomones 3318	in California 2435, 5895	in Tasmania 963
hand inoculator for dispensing	in England 5069	pest control on 1977, 2433
lepidopterous larvae 2290	in France 6057	biological 386, 5950
insect actograph using Doppler shift 3790	in Kazakhstan 381 in Morocco 3481	in RSFSR 3469 in USSR 2945
insecticide duster 2770	in New Zealand 2956, 5889	integrated 209, 958, 1450, 1455, 1760
killing-bottle with interchangeable poison	in Ontario 4553	2953, 3481, 5605
6142	in Romania 5603	pesticides for 6441
light-intensity control for producing day-	in RSFSR 3469	spray volumes for 1456
night cycles 5420	in Ukraine 2953	tetranactin for 6714
multifunctional electrophoresis system	in USSR 626, 2945	thresholds for 1455, 2960
494	in Washington 383, 392	winter treatments for 2951
olfactometers 685	rearing of 967	pest management on 2440, 2932
oviposition cage for Anthonomus grandis	varietal preferences of 968	economics of 5893
2287	Dasineura mali on, damage caused by	Phyllonorycter spp. on, in British
portable counting aspirator for insects	5066	Columbia 385
2284	Dysaphis devecta on, in UK 5604	P. blancardella on, forecasting infestation
portable paraffin sprayer 2277	D. plantaginea on	of 1979
rearing cage for phytophagous mites	in Italy 5606	P. ringoniella on, in Japan 1457
1857	in Poland 3465 in UK 5604	Pseudococcus spp. on, in South Africa 2958
semi-automatic flight monitor for tethered insects 2742	Elasmucha antennata on, in Turkey 4095	Psylla mali on, damage caused by 5067
ultrasonic insect movement detector 176	Enarmonia formosana on, in Poland	Psylloidea on, in British Isles 6029
pendiseta robiniae	3479, 6466	Pterochloroides persicae on 5614
descriptions of 5794	Eotetranychus pruni on	Ouadraspidiotus perniciosus on
in Italy 5794	in Bulgaria 370	in Romania 5603
on Robinia pseudacacia, damage caused	in China 4866	in USSR 2955
by 5794	Epiphyas postvittana on, in New Zealand	in Washington 2434
ople	5888, 5889	Resseliella oculiperda on, damage caused
Acanthococcus aceris on, in Iraq 4335	Eriophyidae on, in Bulgaria 388	by 5066
Aculus schlechtendali on	Eriosoma lanigerum on	Rhagoletis pomonella on
in Massachusetts 4552	in New Zealand 5885	assessing infestations of 389
in New York 376	in Sikkim 5071 in Sweden 2170	attraction of 4896
Adoxophyes orana on forecasting infestations of 4701	resistance to 5600	in Massachusetts 2441 in New York 377, 382
in Austria 1756	Eutromula pariana on, in British	in North America 1978
in Yugoslavia 5068	Columbia 951	Rhopalosiphum insertum on, in UK
Allantinae on, in North America 1178	E. vinosa on, in Japan 700	5604
Anthonomus pomorum on, in Poland	Euzophera bigella on, in Italy 6459	Swammerdamia beirnei on, in British
6465	Geometridae on, in Bulgaria 1452, 1454	Columbia 961
Aphidoidea on	Hemithea aestivaria on, in British	Taeniothrips spp. on
effects of 2437	Columbia 1974	assessing infestations of 2443
in France 5601	Hoplocampa testudinea on	in Himachal Pradesh 5070
Aphis citricola on, distribution pattern of	in Poland 6463	Tenuipalpus taonicus on, in China 6442
3471, 5599	in Ukraine 2953 varietal preferences of 6462	Tetranychidae on in Poland 6464
A. pomi on in Poland 3465, 6467		predation of 1981
in UK 5604	Hyphantria cunea on, distribution pattern of 1573	Tetranychus urticae on
Archips podanus on, in Italy 4551	insect pests of	in Massachusetts 4552
A. rosanus on, in Italy 4551	damage caused by 1455	in New Zealand 1155
Argyrotaenia pulchellana on, in Italy	effects of plant height on 380	in Tasmania 963
4551	effects of plant spacing on 380	in Victoria 6460
A. velutinana on, in New York 4923	in Himachal Pradesh 2436	Thrips carthami on, in Himachal Prades
arthropod pests of	in Northern Ireland 4184	5070
effects of pesticides on 209	in Nova Scotia 1977	Tortricidae on
in Finland 1903, 4476	in Ukraine 5183	in Bulgaria 1454
in Italy 6457	insecticides in, translocation of 3194	in Poland 3476, 3477, 3478
in Ohio 1976	Lepidoptera on, artificial diets for 1850	Typhlocyba pomaria on
in Poland 3982	Lepidosaphes malicola on, in Armenia 2948	damage caused by 384 in Illinois 6468
in Quebec 359, 958, 4177 in Switzerland 1456	L. ulmi on 955, 956	Yponomeuta malinellus on
organophosphate resistance in 2440	Lycia hirtaria on, in Crimea 2957	in France 5065
arthropods on, population development of	Lygocoris communis on, in Quebec 960	in Kazakhstan 381
5605	Lygus lineolaris on	Apple chlorotic leaf spot virus 4690
Brevipalpus pulcher on, in Egypt 952,	assessing infestations of 1453	Apple-leaf powder, diet component for,
953	in Quebec 960	Lepidopterous pests of apple 1850
Bryobia cristata on, in UK 1451	Lymantria dispar on, feeding by 948	Apple orchards
B. rubrioculus on, in UK 1451	Lyonetia prunifoliella on, in Honshu	Araneae in, in Quebec 387
Cacopsylla costalis on, in Turkey 1310	2964	beneficial insects in, traps for 379
captan in, residues of 3209	Magicicada spp. on, in Indiana 3470	Braconidae in, in Lithuania 3339

```
Apple orchards contd.
                                                                                         Araecerus fasciculatus contd.
                                                                                                                                                                                  Archenomus maritimus contd.
                                                                                                                                                                                       taxonomy of, misidentified as Pteroptrix
chinensis, in USSR 4980
                                                                                              in maize grain, damage caused by 586
    Campylomma verbasci in, in Poland
                                                                                              in Phaseolus seeds, damage caused by
                                                                                                                                                                                   archimedias, Eudemopsis (Sorolopha)
archimedias, Sorolopha (see Eudemopsis
    Carabidae in, in Ontario 957
                                                                                                    586
    carbaryl in, non-target effects of 381
                                                                                              in stored groundnuts, damage caused by
     Orius minutus in, in Poland 3473
                                                                                                                                                                                         archimedias)
    parasitic insects in, effects of insecticides
                                                                                                                                                                                   Archinemapogon, in Himalayan region
                                                                                              in sunflower seeds, damage caused by
          on 5071
                                                                                                                                                                                         6026
                                                                                                    586
    Phytoseiidae in, in Utah 2439
predatory arthropods in
effects of pesticides on 2953, 507
in New York 2963
in Virginia 4919
population development of 5605
                                                                                              in yam chips, in Nigeria 3651
                                                                                                                                                                                   Archips, on Prunus serotina, damage caused by 569
Archips cerasivoranus
                                                                                              parasitised by, Anisopteromalus calandrae,
                                                   2953, 5072
                                                                                                   in Karnataka 3677
                                                                                                                                                                                       renips cerasivoranus
in Canada 5842
Nosema cerasivorana in, in Ontario 5842
Pleistophora spp. in, in Ontario 5842
Thelohania spp. in, in Ontario 5842
trail markers of, specificity of 2201
                                                                                          Araneae
                                                                                              book 2810
                                                                                              feeding behaviour in 2819
    predatory insects in
effects of insecticides on 1977
in Nova Scotia 1977
predatory mites in
                                                                                              in Finland 800
in Kuwait 1837
                                                                                                                                                                                   Archips podanus
attractants for 32
in Bulgaria 1454
                                                                                              in Marshall Islands 4309
                                                                                              in North America, book 2814
        effects of insecticides on 6468
        effects of pesticides on 1976 in Iowa 954
                                                                                              in USA, book 6007
                                                                                                                                                                                       in Czechoslovakia 3235
in Italy 4551
in UK 4307
                                                                                              in apple orchards
                                                                                                  effects of pesticides on 5072
         in Massachusetts 4552
                                                                                                  in Norway 560
in Quebec 387
                                                                                                                        5605
                                                                                                                                                                                       on apple
in Bulgaria 1
in Italy 4551
     Saniosulus nudus in, in Egypt 1894
     Syrphidae in, in East Germany 5480
                                                                                                                                                                                                                  1454
                                                                                              in barley fields, effects of undersowing on
Apple pomace, bait component for, Agrotis ipsilon 876
Apple (stored fruit)
                                                                                                                                                                                       seasonal abundance of 1454
                                                                                                    3433
                                                                                                                                                                                   Archips rosanus
biology of 5628
control of
                                                                                              in citrus groves, effects of pesticides on
    Epiphyas postvittana in, in Tasmania
1120
                                                                                                    975
                                                                                              in cotton-field borders, in Queensland 2546
pest control in, fumigants for 1120
Apple, wax (see Eugenia javanica)
approximata, Atherigona
approximator, Rhyssella
apricans, Apion
Apricot (Prunus armeniaca)
Adoxophyes orana on, in Yugoslavia
5068
                                                                                                                                                                                       insecticides for 4551, 5628
timing of 4551, 5628
illustrations of 5628
in Italy 4551, 5628
in Poland 3476, 3477
in USSP 1556
                                                                                             2546
in cotton fields
effects of herbicides on 4600
effects of insecticides on 1042
in Mississippi 1046
sampling of 1550
in fields, review 5476
in forests, effects of acephate on 2073
in grain fields, in Switzerland 255
in grassland, in Pennsylvania 4916
in rape fields, in Switzerland 255
in rice-fields, effects of insecticides on 6407, 6424
                                                                                                                                                                                       in USSR
                                                                                                                                                                                                         1556
                                                                                                                                                                                       on apple
in Italy 4551
in Poland 3476, 3477
                                                                                                                                                           2073
    Ceratitis capitata on, in Ukraine 5595
Elasmucha antennata on, in Turkey 4095
Euzophera bigella on, in Italy 6459
Lepidosaphes malicola on, in Armenia
                                                                                                                                                                                       on Citrus
                                                                                                                                                                                           damage caused by 5628
                                                                                                                                                                                           in Sicily 5628
                                                                                                                                                                                       on ornamental shrubs, in USSR 1556
    Orgyia gonostigma on, in USSR 3464
pest control on 2433
Pterochloroides persicae on, in Italy
                                                                                              6407, 6424
in soil, extracting of 4873
in soyabean fields
                                                                                                                                                                                   Archips xylosteanus
                                                                                                                                                                                       attractants for 3235
                                                                                                                                                                                       in Czechoslovakia 3
in Yugoslavia 5793
                                                                                                                                                                                                                           3235
                                                                                                  effects of cultural practices on 460
                                                                                                  effects of pest control practices on in Iowa 6196
     Resseliella oculiperda on
                                                                                                                                                                                       on Quercus borealis, in Yugoslavia 5793
     Taeniothrips spp. on, in Himachal
Pradesh 5070
                                                                                                                                                                                   Archives, termite control in Archytas apicifer in USA 3379
                                                                                              in sugar-cane plantations, in Egypt 435 in urban areas, in West Germany 2745
     Thrips flavus on, in Himachal Pradesh 5070
                                                                                              in wheat fields
                                                                                                                                                                                       parasitising, Agrotis ipsilon, in Indiana
Apricot orchards, Coniopterygidae in, in
Hungary 3467
                                                                                                  effects of burning of stubble on 2889 in Saskatchewan 299
                                                                                                                                                                                             3379
                                                                                                                                                                                   arcotensis, Oricoruna (Pachycrepoideus) arcotensis, Pachycrepoideus (see Oricoruna
 Aprostocetus diplosidis (see Tetrastichus
                                                                                              parasitised by
                                                                                              Ichneumonidae, in Poland 2075

Megaselia spp., in UK 4996

preyed on by, Coccinellidae 2821
       diplosidis)
                                                                                                                                                                                         arcotensis)
Apsylla cistellata
biology of 990
control of 990
in India 990
                                                                                                                                                                                   Arctia caja
in USSR 2946
                                                                                              preying on
Chironomidae, in South Korea 3965
Heliothis spp., in New South Wales
                                                                                                                                                                                       on fruit trees, in USSR 2946
                                                                                                                                                                                   Arctiidae
                                                                                                                                                                                      retiidae
flight activity in 3771
in British Isles 163
in Comoro Islands 5449
on Crotalaria, uptake of pyrrolizidine
alkaloids by 5450
on Senecio jacobaea, uptake of
pyrrolizidine alkaloids by 5450
scent organs in 163
in India 990
on mango, in Uttar Pradesh 990
Apterencyrtus, taxonomy of, synonym of
Zaomma 4189
Apterencyrtus acanthococci, taxonomy of,
transferred to Zaomma 4189
Apterencyrtus danzigae, taxonomy of,
transferred to Zaomma 4189
Apterencyrtus circocci, taxonomy of,
transferred to Zaomma 4189
                                                                                                        6569
                                                                                                  Nilaparvata lugens 2401
in Karnataka 1401
in West Bengal 4507, 6397
Pleroneura spp., in California 3066
                                                                                                  rice hoppers
in Philippines 3908
in Thailand 911
Sesamia cretica, in Egypt 2354
Surattha indentella, in Kansas 1943
Apterencyrtus eriococci, taxonomy of, transferred to Zaomma 4189 apterus, Pyrrhocoris Aptesis, in Lithuania 5390
                                                                                                                                                                                   Arctium lappa insect enemies of, in Canada 6338
                                                                                                                                                                                       pollination of, by insects 6338
 Aquatic weeds, control of, biological 5944
                                                                                          Araneida (see Araneae)
                                                                                                                                                                                   Arctium minus
 aquilonia, Formica
                                                                                          Araneidae, in forests, effects of acephate on
                                                                                                                                                                                       Aphis barberae on, in Manitoba 6 insect enemies of, in Canada 6338
Araceae, Forcipomyia spp. in axils of, in
Neotropical region 6011
                                                                                                                                                                                       pollination of, by insects 6338
                                                                                              air pollution as affecting 2831 in Finland 2831
                                                                                                                                                                                   Arctosa emertoni
                                                                                                                                                                                       in Canada 299
in wheat fields, in Saskatchewan 299
seasonal abundance of 299
 Arachis hypogaea (see Groundnut)
Arachnida, in wheat fields, in USSR
                                                                                         in Finland 2831
Araniella displicata
in Canada 387
in apple orchards, in Quebec 387
arator, Heteronychus
Araujia sericifera, benzeneacetaldehyde in,
attracting moths 1169
Arbinex (see Heptachlor)
arboreus, Typhlodromus
arbustorum, Plagiognathus
Archenomus bicolor
in Japan 3056
parasitising, Pseudaulacaspis pentagona, i
                                                                    2870
 Arachnis, parasitised by, Trichogramma spp.
                                                                                                                                                                                  seasonal abundance of 299
arcuata, Chrysopa
arcuata, Coccinella (see Harmonia
octomaculata)
arcuata, Corythucha
arcuatus, Agrilus
arcuatus, Pseudocatolaccus
Ardesia (see Ardisia solanacea)
Ardisia solanacea
Aleurocanthus woglumi on, deve
       1650
 Aradophagini, taxonomy of 1890
 Aradus cinnamomeus
in USSR 5767
     on Pinus, in USSR
                                          5767
on Pinus, in USSR 5767
preyed on by, Raphidia ophiopsis, in USSR 5767
Araccerus fasciculatus
in India 3677
in Malaysia 3143
in Nigeria 3651
                                                                                                                                                                                       Aleurocanthus woglumi on, development of 4005, 4565
                                                                                              parasitising, Pseudaulacaspis pentagona, in Japan 3056
                                                                                                                                                                                       Dialeurodes citri on, not developing
                                                                                          Archenomus maritimus
in USSR 4980
parasitising, Quadraspidiotus perniciosus,
in USSR 4980
     in Areca catechu nuts, in Karnataka
                                                                                                                                                                                             4565
                                                                                                                                                                                   areator, Gelis
Areca catechu, Carvalhoia arecae on, in
           3677
     in cassava chips, in West Malaysia 3143
     in coffee beans, damage caused by 586
                                                                                                                                                                                         Kerala 6446
```

sojoet inden		07
reca catechu (stored nuts), arthropod pests of, in Karnataka 3677	Argyresthia conjugella, in Austria 1756 Argyresthia thuiella	Arkansas Anthonomus grandis in, bacteria in 35
ecae, Carvalhoia	development in, effects of temperature on	Curculio caryae in, on pecan 947
enaria, Vespula renipses sabella	5760 in Canada 2584, 5760	Dendroctonus frontalis in, on Pinus 2786, 3607, 5740
control of, cultural 2425	mortality in 2584	Diogmites missouriensis in 2336
in Egypt 2422, 2425 on date palm	on Thuja occidentalis, in Ontario 2584, 5760	Plathypena scabra in, natural enemies of 461
effects of clean cultivation on 2425	parasitised by, Hymenoptera, in Ontario	Armadillidium nasatum
in Egypt 2422	2584	in UK 6508
enosa, Temelucha eolata, Coelopisthia	argyrogaster, Efferia Argyrophylax nigrotibialis	on cucumber, in UK 6508 Armadillidium vulgare
rge humeralis	in Philippines 904	Chilo iridescent virus in, replication of
biology of 4485 descriptions of 4485	parasitising, Cnaphalocrocis medinalis, in Philippines 904	3151 in UK 3429, 3430
in USA 4485	Argyrophylax proclinata	in dune grassland
on Rhus radicans, in Florida 4485 parasites of, in Florida 4485	in Australia 2460	in England 3429 role as decomposer of 3430
rge ochropus, in USSR 5387	parasitising, Nacoleia octasema, in Queensland 2460	population dynamics of 3429
rge pullata biology of 6605	Argyroploce erotias (see Gatesclarkeana	Armadillo, preying on, Atta spp. 5179 armata, Pyrgodera
in USSR 6605	erotias) Argyroploce leucaspis	armatorius, Amblyteles
on Betula, in USSR 6605 rge rosae auct. (see A. ochropus)	control of, insecticides for 6497	armatus, Dacus armatus, Onychiurus
rgei, Cirrospilus gentata, Argyope	in India 2449, 6497 on Litchi chinensis	armigera, Dicladispa (Hispa)
gentata, Argyope gentatus, Phyllobius	effects of fertilizers on 6497	armigera, Helicoverpa (see Heliothis armigera)
gentea, Cucullia genteola, Forcipomyia	in Uttar Pradesh 2449 Argyrotaenia pulchellana	armigera, Heliothis (Helicoverpa)
gentifrons, Campoletis	attractants for 3235	armigera, Hispa (see Dicladispa armigera) armigera, Trichogrammatoidea
rgentina Acigona infusella in	in Czechoslovakia 3235	Armillaria, in, Eucalyptus spp., in Tasman
natural enemies of 5507	in Italy 209, 4551 on apple, in Italy 4551	1091 Armillaria mellea (see Armillariella mellea
on Eichhornia crassipes 5507 Atta vollenweideri in, in pastures 1420	Argyrotaenia velutinana attractants for 1729	Armillariella mellea, in, Abies spp., Scolyt
Cactoblastis spp. in, on Eriocereus	control of	ventralis associated with 2065 armillata, Diadegma
martinii 6337	insecticides for 1976 mating disruption for 1729, 4923	Armitermes
Ceratitis capitata in, on Citrus 6480 Chalcidoidea in 5410	in USA 1976, 4923	predators of, defensive activity against 190
Cicindela spp. in 2669 Hypogeococcus festerianus in, on	on apple in New York 4923	preyed on by, Octostruma jheringi, in Brazil 190
Eriocereus 2857	in Ohio 1976	Armitermes neotenicus
Ichneumonidae in 3099 Myzus persicae in, on Capsicum 5709	sex pheromone of, receptors for 666 Arhar (see Cajanus cajan)	Hormiscioideus filamentosus in, in Brazi
Pectinophora gossypiella in, on cotton	Arhopalus rusticus	in Brazil 3867
4072 Piezodorus guildinii in, natural enemies of	in Hungary 4109 in Poland 4615	Armoracia lapathifolia (see Horseradish) Armoracia rusticana (see Horseradish)
4442	on Pinus nigra, in Hungary 4109	armoraciae, Aphis
Schistocerca cancellata in 4426 Sibinia spp. in, on Prosopis 3076	seasonal abundance of 4615 aridifolia, Paratenodera (see Tenodera	armoraciae, Phyllotreta arori, Caryedon
Tatochila autodice in 4955	aridifolia)	arotraea, Brachmia
Trimerotropis pallidipennis in 4424 gentinensis, Hyalomyodes (see H.	aridifolia, Tenodera (Paratenodera) Aristolochia, insect resistance in 504	Arrhenatherum, Heteroptera on, effects of cutting on 3443
brasiliensis)	aristolochiae, Pachliopta (Polydorus)	Arrhenatherum elatius, Hemiptera on,
gentipedella, Ectoedemia (Stigmella) gentipedella, Stigmella (see Ectoedemia	aristolochiae, Polydorus (see Pachliopta aristolochiae)	effects of cutting on 3434 Arrhenophagus chionaspidis
argentipedella)	Aristolochic acid, in Aristolochia, role in	in Japan 3056
rgiidae, in Lithuania 5387 gillacea, Alabama	insect resistance of 504 Aristotelia, on Baccharis halimifolia, and	in USA 4555 parasitising
rgina cribraria, control of, insecticides for	biological control using, in Queensland	Pseudaulacaspis pentagona
3708 rginase	5498 Aristotelia turbida	in Florida 4555 in Japan 3056
in Antheraea mylitta eggs, activity pattern	in Australia 1910	Arsenic acid
of 4473 in Samia cynthia fat-body, activity pattern	on Tribulus terrestris, damage caused by 1910	lead salt against
of 4472	Arizona Aonidiella aurantii in, on Citrus 5638	Cydia pomonella 209 Eublemma amabilis 1350
Arginine attractant for, Neoaplectana carpocapsae	Autographa californica in, on cotton	Arsenic oxide (As ₂ O ₅)
in Sitophilus oryzae diet, requirement for	4066 Bucculatrix thurberiella in, on cotton	with copper(2+) sulfate, and dipotassium chromate (K ₂ Cr ₂ O ₇)
3269	6559	against
in Spodoptera littoralis, effects of insecticides on 4362	Cerambycidae in 4294 Coleoptera in 793	Coptotermes acinaciformis, in Dyer costulata wood 4129
in Spodoptera littoralis hemolymph, not	cotton fields in, predatory insects in	Nasutitermes exitiosus, in Dyera
affected by DDT 3818 rginosuccinate (see Lyase, arginosuccinate)	5720 Dendroctonus spp. in, on Pinus 5191	costulata wood 4129 Arsenicals
rgiopidae, in rice-fields, in West Bengal	D. frontalis in 558	against
4507 gutus, Tydeus	Diabrotica virgifera in 6248 Estigmene acraea in 492	forest pests 3175 pests of sheepskin 2085
rgyope aemula	Formicidae in 794	Arsinic acid, dimethyl-, for killing Ulmus
in Philippines 904 preying on	Heliothis virescens in 492 H. zea in 492	produce trap trees 4924 Artemisia
Cnaphalocrocis medinalis, in Philippines	Hymenoptera in 91	Agrotis ipsilon on 68
904 Drosophila spp. 2778	Ichneumonidae in 3099 Lepidoptera in, on lettuce 5646	Craspedolepta spp. on, in North Americ
rearing of, techniques for 2778	Pectinophora gossypiella in, on cotton	C. chasanica on, in Maritime Territory
rgyope argentata preying on, <i>Drosophila</i> spp. 2778	483, 491, 492, 1745, 2522, 3044, 3556, 4070, 4607, 5715	147 C. dorecinica on, in Maritime Territory
rearing of, techniques for 2778	Pityophthorus rubidus in, on Pinus 1577	147
rgyope undulata in India 3939	Spodoptera exigua in 492 Trichoplusia ni in 492	Macrosiphoniella spp. on, in Poland 3875, 3876
in rice-fields, in Kerala 3939	Xeranobium laticeps in, on Haplopappus	Artemisia absinthium, Euzophera cinerose
preying on, Nilaparvata lugens 3939	3873	on, damage caused by 1905

transmission by parasites of 5856

```
Artemisia arborescens, antifeedant activity of extracts of 4371
                                                                                                     Artogeia rapae contd.
                                                                                                                                                                                                          Ascia monuste orseis
                                                                                                          growth regulators in, effects of 4166
in Australia 417, 1497, 2005, 5948, 5952
in Bulgaria 4022
in Canada 417
                                                                                                                                                                                                               mating in 186
Artemisia artemisiifolia, Euaresta bella on,
in Maryland 3351
Artemisia trifida, Euaresta festiva on, in
                                                                                                                                                                                                           oviposition in 185, 186
ascitus, Tarsonemus
Asclepias curassavica, Oncopeltus fasciatus
       Maryland 3351
                                                                                                                                                                                                                  on, in Brazil 3288
                                                                                                          in New Zealand 5888, 5889
                                                                                                          in UK 3770, 4176
in USA 1000, 2002, 2471, 2472, 2999,
artemisiae, Macrosiphoniella
                                                                                                                                                                                                           Asclepias syriaca
 Arthrocnodax, in birch catkins 5190
                                                                                                                                                                                                                Coleoptera on, in Ohio 272
                                                                                                                                                                                                                Oncopeltus fasciatus on, food utilisation
Arthrocnodax occidentalis
in USA 3987
in strawberry fields, in California 3987
                                                                                                                 6226
                                                                                                          in USSR 5838, 5839
migration in 3770
                                                                                                                                                                                                                     by 4230
                                                                                                                                                                                                           Ascogaster reticulata
Arthropods
aestivation in, review 5430
atmospheric water absorption in, review 2190
                                                                                                          Nosema bombycis in, pathogenicity of
                                                                                                                                                                                                               in Japan 3056
                                                                                                                                                                                                                parasitising, Adoxophyes spp., in Japan
                                                                                                          on broccoli, in Nebraska 6226
on brussels sprouts, in England 4176
                                                                                                                                                                                                                      3056
                                                                                                                                                                                                           L-Ascorbic acid
    common names of, in USSR 691
cuticle in, water flux through 4793
identifying of, techniques for 1173
locomotion in choice chambers, model
                                                                                                                                                                                                                diet component for
                                                                                                               damage caused by 2005, 4022 in Chuvash ASSR 5838 in Florida 1000, 2002 in Georgia (USA) 2002, 2999
                                                                                                                                                                                                                    Dichocrocis punctiferalis 4877
Eurygaster integriceps 3746
                                                                                                                                                                                                                    Mamestra brassicae 6143
Mythimna separata 6143
population age distribution in 1297
production and respiration in 116
Artichoke, leptophos in, removing residues
of 6721
                                                                                                               in Maritime Territory
                                                                                                          in Maritime Territory 3839
in Nebraska 6226
in New South Wales 1497
in New Zealand 5888
in Virginia 2471
varietal preferences of 2472, 4937
on cauliflower
damage caused by 4022
                                                                                                                                                                                                                     Oraesia emarginata 1321
                                                                                                                                                                                                                    Spodoptera littoralis 5717
                                                                                                                                                                                                                     Trichoplusia ni 5427
Artichoke, globe (Cynara scolymus)
biocontrol agents for thistle feeding on
                                                                                                                                                                                                               in Dacus cucurbitae diet, requirement for 2207
            5505
                                                                                                                                                                                                               in Eurygaster integriceps diet, effects of 2699
                                                                                                         on cauliflower
damage caused by 4022
in New Zealand 5889
oviposition in 2472, 4937
parasitised by
Apanteles glomeratus 5856
in Florida 1000
in New South Wales 1497
A. ruficrus 2335
Diadegma fenestralis 2335
Hyposoter spp. 2335
Lespesia aletiae, in Florida 104
Microplitis tuberculifera 2335
Pteromalus puparum
Ceutorhynchus trimaculatus on,
development of 5010
Gortyna flavago on 993
G. xanthenes on 993
Terellia fuscicornis on, in Turkey 1311
Artipus, preyed on by, Cerceris watlingensis,
in Bahamas 4930
                                                                                                                                                                                                               in Graphosoma lineatum diet, effects of 2699
                                                                                                                                                                                                                in Manduca sexta diet
                                                                                                                                                                                                               replacement for 2191
requirement for 2191
in potato, effects of carbofuran on 5114
                                                                                                                                                                                                           Ascosphaera apis
citral in, inhibiting growth 3683
geraniol in, inhibiting growth 3683
in, Apis mellifera, not affected by citral
3683
 Artipus floridanus
Artipus floridanus
illustrations of 2971
in USA 2971
on Citrus, in Florida 2971
parasitised by, Trichogramma spp. 6484
Artocarpus heterophyllus, Tegolophus indica
on, in West Bengal 4727
Artogeia canidia, androconia in 4215
Artogeia canidia juba
diapause in 1827
nunal dimorphism in 1827
                                                                                                               Pteromalus puparum
in Florida 1000
in New South Wales 1497
                                                                                                                                                                                                           Asecodes, keys to 847
Asecodes galerucae
                                                                                                                                                                                                               sp. nov., description of 847 in Italy 847
                                                                                                          phenotypic-induction mechanisms in 2676
                                                                                                                                                                                                                parasitising, Galeruca rufa, in Italy 847
                                                                                                                                                                                                           Asecodes mento
biology of 1343
descriptions of 1343
in USSR 1343
     pupal dimorphism in 1827
                                                                                                          pupae of, factors determining colour of
Artogeia japonica
cross-mating of, with, Artogeia napi
                                                                                                                  6113
                                                                                                     seasonal abundance of 1000, 1497
silk glands in 32
Artogeia rapae crucivora
cleomeprenols in, metabolism of 2210
diapause in 1827
fecundity in 5367
habitats of 1495
in Japan 1251, 1495, 4577, 5367
mating in 4577
mortality in 1251
on cabbage, in Japan 4577
pupal dimorphism in 1827
Arum, Rhizoecus palestineae on 3057
                                                                                                           seasonal abundance of 1000, 1497
            5372
diapause in 1827
habitats of 1495
in Japan 1495
mating in 5372
pupal dimorphism in

Artogeia melete
androconia in 4215
habitats of 1495
in Japan 1495
scent-scale substances
                                                                                                                                                                                                               parasitising, Galerucella nymphaeae, in USSR 1343
                                                                                                                                                                                                          USSR 1343
Ash (see Fraxinus)
Ash, European (see Fraxinus excelsior)
Ash, green (see Fraxinus pennsylvanica)
Ash, mountain (in Australasia) (see
Eucalyptus regnans)
ashmeadi, Crematogaster
Asia, Central, Aphidoidea in, natural
enemies of 1177
asiatica, Pseudonapomyza
asiaticus, Trioxys
asigna, Thosea
Asilidae
in Pennsylvania 156
n Japan 1495
scent-scale substances in 2695
Artogeia melete melete
diapause in 1827
pupal dimorphism in 1827
                                                                                                      Arum, Rhizoecus palestineae on 3057
                                                                                                     arvicola, Adialytus
arvicola, Lysiphlebus (see L. ambiguus)
 Artogeia napi
                                                                                                      Arytaina ceanothae
in USA 4090
     androconia in 4215
                                                                                                                                                                                                                in Pennsylvania 156
in Soviet Far East 1
     phenotypic-induction mechanisms in 2676
                                                                                                          on Ceanothus sanguineus, damage caused
                                                                                                                                                                                                           Asiphonella cynodonti
in India 286
                                                                                                                 by 4090
                                                                                                     Arytaina genistae
in Czechoslovakia 4648
      pupae of, factors determining colour of
                                                                                                                                                                                                           on Cynodon dactylon, in India 286
Asolcus (see Trissolcus)
            6113
Artogeia napi macdunnoughii
food-plant relations of 2851
in USA 2851
Artogeia napi nesis
                                                                                                          on Sarothamnus scoparius, in
                                                                                                                                                                                                           Asolcus (see Trissolcus rungsi)
Asosylus rhysodoides
descriptions of 6615
in Papua New Guinea 6615
asparagi, Crioceris
asparagi, Tetrastichus
L-Asparagine
in rice, role in suscentibility to
                                                                                                                  Czechoslovakia 4648
                                                                                                          preyed on by, Anthocoris sarothamni, in
Czechoslovakia 4648
     cross-mating of, with, Artogeia japonica 5372
                                                                                                      Asaphes lucens
in USA 2917
                                                                                                     in USA 2917
parasitising, Lysiphlebus testaceipes, in Texas 2917
Asaphes vulgaris
hyperparasitising
grain aphids, in England 1388
Myzus persicae, in Greece 6302
Toxoptera aurantii, in Greece 6302
in Greece 6302
in UK 1388
parasitising Aphidius spop, in England
     fecundity in 5367
in Japan 5367
mating in 5372
                                                                                                                                                                                                               Asparagne
in rice, role in susceptibility to
Nilaparvata lugens of 915
in Spodoptera littoralis, effects of
insecticides on 4362
Nilaparvata lugens feeding responses to
3413
 Artogeia rapae
androconia in 4215
     control of
          biological 3514, 5838, 5839, 5948,
          companion crops for 6226
companionate planting ineffective for
2471
                                                                                                                                                                                                            Asparagus
                                                                                                          parasitising, Aphidius spp., in England
                                                                                                                                                                                                                Coccus hesperidum on, in USSR 2977
                                                                                                                  1388
                                                                                                                                                                                                                Crioceris asparagi on, in Netherlands
          insecticides for 2002, 2999, 4176, 5839, 5888, 5889 threshold for 2999, 4022 timing of 2002
                                                                                                     ascalonicus, Myzus
Aschersonia
                                                                                                                                                                                                                C. duodecimpunctata on, in Netherlands
                                                                                                          culture methods for 2118 in, Dialeurodes citri, and biological
                                                                                                                                                                                                                       6502
                                                                                                                                                                                                            Asparagus officinalis (see Asparagus)
     cuticle in, protein synthesis in 1213
food-plants of, selecting of 417
granulosis virus in
in New South Wales 1497
                                                                                                                  control using, in USSR 626
                                                                                                                                                                                                           L-Aspartic acid
                                                                                                      Aschersonia placenta
culture methods for 628
in, Trialeurodes vaporariorum, and
                                                                                                                                                                                                                in Locusta migratoria, effects on motor
                                                                                                                                                                                                               activity of 50 in Locusta migratoria flight muscles, during flight 4228
```

biological control using 628

oject much		093
Aspartic acid contd.	Aspidiotiphagus citrinus contd.	Astigmata
in Lucilia sericata, not affecting motor activity 50	parasitising contd. Hemiberlesia lataniae, in Chile 4570	in drained bogs, in Irish Republic 3425 in industrial reclamation sites, in England
in Lucilia sericata hemolymph, fate of 1211	Quadraspidiotus perniciosus, in USSR 4980	3424 in pastures, in Irish Republic 3425
in Manduca sexta, effects on cyclic	Unaspis yanonensis, in Kyushu 1352	on Quercus, in Texas 3062
nucleotides in nerve cord of 751	seasonal abundance of 1352, 3608	on Ulmus carpinifolia, associated with
in Oxycarenus hyalinipennis feces 3748 in rice, role in susceptibility to	Aspidiotus destructor in India 4493	Scolytus 4626 Astragalus
Nilaparvata lugens of 915	in New Hebrides 2935	Acyrthosiphon kondoi on, development of
in Spodoptera littoralis, effects of insecticides on 4362, 4363	on coconut, in New Hebrides 2935 on <i>Tamarindus indica</i> , in India 4493	930 Therioaphis trifolii on, development of
in Spodoptera littoralis hemolymph,	predators of 2821	930
effects of nuclear polyhedrosis virus on 6686	preyed on by	astuta, Balocha astyra, Brassolis
pasma, Chloealtis	Coccinellidae, in West Indies 249 Sukunahikona prapawan, in New	asulcifera, Sibinia
pavia, on rice, damage caused by 6417 spen, largetooth (see <i>Populus</i>	Hebrides 2935	asychis, Aphelinus Asymmetrasca decedens, in Egypt 4358
grandidentata)	Aspidiotus destructor rigidus (see A. rigidus)	Asynapta, on Pinus taeda, attack periods of
spen, quaking (see Populus tremuloides) spen, trembling (see Populus tremuloides)	Aspidiotus nerii	5776 Asynapta laricis (see A. strobi)
pergillus	control of, biological 4570	Asynapta laricis Skrzypczyńska
insects, pathogenicity of 1637	in Chile 4570 in Greece 4008, 6491, 6495	in Poland 3595 on <i>Larix decidua</i> , in Poland 3595
maize grain, in Nigeria 3650	in Israel 4204	taxonomy of 3595
spergillus amstelodami, in, cheese, favouring mites 3116	on Nerium oleander, in Israel 4204 on olive	Asynapta strobi, taxonomy of 3595 Ataenius, in Ohio 4530
spergillus candidus	damage caused by 6491	Ataenius spretulus
wheat grain	effects of road dust on 4008 in Chile 4570	Bacillus spp. in, in Ohio 6204 biology of 6208
interactions with other pests of 4668	in Crete 6495	control of, insecticides for 6208
not associated with mites 4120 spergillus flavus	in Mediterranean region 3506 on potato, development of 4204	descriptions of 4530 in USA 4530, 6204, 6208
in	parasites of	in lawns and sports turf, in Ohio 4530
cotton, relation of insect damage and 2522, 2533	effects of road dust on 4008 in Chile 4570	in sports turf damage caused by 6208
dried red peppers, in India 4655	parasitised by	in Ontario 5046
Sitotroga cerealella, transmission of 4655	Aphytis chilensis, in Crete 4008, 6495 Habrolepis rouxi 2832	on Agrostis, in Ohio 6208 on Poa annua, in Ohio 6208
Tribolium castaneum, transmission of	predators of, in Chile 4570	on Poa pratensis, in Ohio 6208
4655 T. confusum, transmission of 4655	rearing of, techniques for 4008	Ataenius strigatus descriptions of 4530
spergillus fumigatus, in, Sitophilus	taxonomy of, characters distinguishing A. paranerii and 4204	in USA 4530
granarius, pathogenicity of 3675	Aspidiotus paranerii	in lawns and sports turf, in Ohio 4530
spergillus glaucus, group of, in, wheat grain, interactions with other pests of	sp. nov., description of 4204 in Israel 4204	Ataxia hubbardi biology of 2036
4668	on Pittosporum undulatum, in Israel	in USA 2036
spergillus niger control of, fungicides for 3324	4204 on potato, development of 4204	rearing of, techniques for 2036 ater, Dermestes
in, insect rearing media 3324	Aspidiotus rigidus	ater, Dufouriellus (Piezostethus)
spergillus parasiticus, skatole in, inhibiting development 1798	control of 936 in Indonesia 936	ater, Hylastes ater, Piezostethus (see Dufouriellus ater)
spergillus repens, in, Gelechia	on coconut, in Indonesia 936	ater, Thysanus
hippophaella, in Buryatia 1322 Spergillus versicolor	aspidistrae, Pinnaspis assamensis, Odontotermes	aterrima, Smittia Athalia colibri (see A. rosae)
iu .	assectella, Acrolepia (see Acrolepiopsis	Athalia glabricollis
cheese, favouring mites 3116 Gelechia hippophaella, in Buryatia	assectella) assectella, Acrolepiopsis (Acrolepia)	in France 1831 on rape, in France 1831
1322	assimilis, Ceutorhynchus	Athalia lugens proxima
perulus, Ceutorhynchus sphondylia	assmuthi, Odontotermes Assuania	biology of 2476 control of
on soyabean, in Japan 1513	control of, insecticides for 1996	antifeedants for 1368
parasites of, in Japan 1513 Sphondylia ceanothi	on banana, in Kerala 1996 assulta, Helicoverpa (see Heliothis assulta)	insecticides for 1368, 1675, 2475, 2637 timing of 5382
in USA 4090	assulta, Heliothis (Helicoverpa)	development in, effects of temperature on
on Ceanothus sanguineus, damage caused by 4090	Aster yellows causal agent	5382 in India 1675, 2475
sphondylia sphaera	control of	on Brassica juncea, effects of irrigation on
biology of 3096 descriptions of 3096	host resistance for 6228 vector control for 6228	2475 on radish
in Japan 3096	in	development of 2476
on Ligustrum japonicum, in Japan 3096 on Ligustrum obtusifolium, in Japan	carrot, resistance to 6228 Macrosteles fascifrons	in Uttar Pradesh 1675 Athalia proxima (see A. lugens proxima)
3096	not pathogenic 5835	Athalia rosae
taxonomy of, neotype for 3096 pidioti, Signiphora	transmission of 5835, 6228 Asterobemisia carpini	biology of 3000 control of
spidiotiphagus	in Netherlands 3829	growth regulators for 4714
parasitising Carulaspis spp., in Pennsylvania 2068	on hazel, in Netherlands 3829 on Rubus, in Netherlands 3829	insecticides for 5652 threshold for 4022
Fiorinia theae, in Assam 1057	on Vaccinium, in Netherlands 3829	diflubenzuron in, effects of 4714
Parlatoria oleae, in Greece 3799 taxonomy of, synonym of Encarsia 6024	Asterochiton vaporariorum (see Trialeurodes vaporariorum)	in Austria 1756 in Bulgaria 4022
spidiotiphagus citrinus	Asterolecanium, preyed on by, Coccinellidae,	in France 1831
in Chile 4570 in Japan 1352	in West Indies 249 Asterolecanium pustulans	in Poland 3702 in Switzerland 5652
in New Zealand 2083	control of, insecticides for 4400	in West Germany 3000
in USA 3608 in USSR 4980	in Egypt 4400 on fig, in Egypt 4400	on cabbage, damage caused by 4022 on cauliflower, damage caused by 4022
parasitising	Asterolecanium vittatum	on Chinese cabbage, in Austria 1756
Aspidiotus nerii, in Chile 4570 Carulaspis juniperi, in New Zealand	sp. nov., description of 2595 in Australia 2595	on mustard, damage caused by 3000 on rape
2083	on Acacia decurrens, in Australian	damage caused by 3702
Fiorinia externa, in Connecticut 3608	Capital Territory 2595	in France 1831

Athalia rosae contd.	ATP (see Adenosine 5'-(tetrahydrogen	Atta mexicana
on rape contd.	triphosphate))	foraging in 5459
in Switzerland 5652 Atherigona approximata	ATPase (see Phosphatase, adenosine tri-) atra, Blastodacna	in Mexico 5459 Atta rubropilosa (see A. sexdens
control of, insecticides for 1928	Atrachya menetriesii	rubropilosa)
in India 1928	diapause in, geographical variation in	Atta sexdens
on Pennisetum americanum, damage	1254	control of
caused by 1928	in Japan 1254	baits for 244
Atherigona orientalis, in Japan 4305	Atractomorpha bedeli (see A. lata)	insecticides for 244 foraging in 2232
Atherigona oryzae, in Japan 4305 Atherigona soccata	Atractomorpha crenulata glycogen in, seasonal changes in 4267	in Brazil 244
biology of 2156, 6352	in India 4267, 5659	in Costa Rica 5171
control of 6352	on Brassica campestris, in Andhra	in Paraguay 2232, 4969
cultural 2405, 5042	Pradesh 5659	on Pinus, in Costa Rica 5171
economics of 5041	Atractomorpha lata in Japan 3292	territorial pheromone in 2694 Atta sexdens rubropilosa
insecticides for 1416, 2404, 2915, 5041	on Solidago altissima, in Kyushu 3292	control of, insecticides for 189
in India 921, 1416, 2404, 2405, 2915, 5041, 5042, 6352	Atractomorpha similis, chromosomes in	foraging trails of 2804
in Kenya 1414	6283	in Paraguay 2804 Atta sexdens sexdens, control of, insecticide
on sorghum	Atractotomus magnicornis in USA 3608	for 189
damage caused by 6429	preying on, Fiorinia externa, in	Atta vollenweideri
effects of fertilizers on 5042	Connecticut 3608	foraging trails of 2804
effects of sowing date on 1414, 2405 in Delhi 5041	seasonal abundance of 3608 Atractotomus mali	in Argentina 1420 in Paraguay 1420, 2804, 4527
in Hyderabad 2404	in Canada 1977	in pastures
in India 6352	on apple, in Nova Scotia 1977	damage caused by 1420
in Maharashtra 1416, 2915	Atranorin	in Paraguay 4527
in Rajasthan 5041 resistance to 2406, 5043	antifeedant for, Spodoptera ornithogalli, on sprouting broccoli 4148	nests of 4527 Attacus atlas, silk of, amino acids in 744
parasites of, in Maharashtra 921	in Letharia vulpina 4148	Attagenus, rearing of, diets for 178
seasonal abundance of 1414	atrata, Megarhyssa	Attagenus fasciatus
sex ratio in 1414	Atrazine (6-chloro-N-ethyl-N'-(1-	descriptions of 2600
Atherigona varia, in Japan 4305 Atheta fungi	methylethyl)-1,3,5-triazine-2,4-diamine) in <i>Musca domestica</i> , effects on fate of	in Denmark 2158 rearing of, techniques for 2158
in Belgium 295	carbofuran of 3884	taxonomy of, Attagenus woodroffei
in West Germany 6358	Atrichopogon, on avocado, in South Africa	misidentified as, in Scandinavia 2600
in maize fields, in West Germany 6358	4557	Attagenus megatoma (see A. unicolor)
in wheat fields, in Belgium 295 Atheta gregaria	atripennis, Nupserha nitidior Atriplex, Tetanops myopaeformis on,	Attagenus unicolor control of
in West Germany 6358	development of 2491	inert dusts for 6176
in maize fields, in West Germany 6358	atrocyanea, Gastrophysa	insecticides for 2158, 3126
Athetis hennia	atrofasciata, Cerotoma	cuticle in, lipids in 40
on Pistia stratiotes, and biological control using 2155	Atropa belladonna, Manduca sexta on 90, 726	in wool textiles 2158 respiration in, developmental changes in
pesticides in, toxicity of 2155	Atropine "	2197
Athetis mindara	in cat, counteracting effects of Vespa	Attagenus woodroffei
in USA 1488	orientalis venom 1340	sp. nov., description of 2600
on cucurbits, in California 1488 athiasae, Pygmephorus (see Siteroptes	in <i>Drosophila melanogaster</i> , toxicity of 6699	in Denmark 2600 in Finland 2600
athiasac)	in rat, partially overcoming effects of	in Sweden 2600
athiasae, Siteroptes (Pygmephorus)	pyrethroids 1158	in dwellings, in Scandinavia 2600
athiasae, Typhlodromus	atropunctata, Eupteryx	taxonomy of, misidentified as A. fasciatus
Athous in North America 17	atropunctata, Graphocephala atrovenosa, Nisia	in Scandinavia 2600 Attelabidae
on pasture plants, in UK 5575	Atta	genitalia in 5306
taxonomy of 17, 23	control of 5179	in Chandigarh 5404, 5405
Athous hirtus, taxonomy of, transferred to Hemicrepidius 23	baits for 4430 insecticides for 5770	attenuatus, Psylliodes Attractants
Athous inornatus, taxonomy of, transferred	identification in field of 3839	for Neoaplectana carpocapsae, insect feca
to Hemicrepidius 23	in Paraguay 3839, 4430	constituents as 1619
Athous niger, taxonomy of, transferred to	on cassava, in Colombia 1025	substances tested as: miscellaneous
Hemicrepidius 23 Athous subfuscus	on forest trees, damage caused by 5179 on Gmelina arborea, in Brazil 5770	compounds 2154 synonyms of 2128
in Denmark 5148	on Pinus	Atylotus agrestis
preying on, Epinotia tedella, in Denmark	in Costa Rica 5171	in Egypt 3371
5148 Athrips rancidella, in Yugoslavia 2078	in El Salvador 5167 on Pinus caribaea, in Brazil 5770	on rice, in Egypt 3371 atys, Achrysocharoides
Athrycia cinerea	pest status of 3839	Aubergine (see Eggplant)
in Canada 996, 4575	pheromone glands in 1800	Auchenorrhyncha
parasitising	research on, funded by UK 6002	control of, biological 256
Mamestra configurata, in Manitoba 996, 4575	Atta bisphaerica, control of, insecticides for 188, 189	in Palaearctic region 5401 in Soviet Central Asia 2759
Mythimna unipuncta, in Manitoba 996	Atta cephalotes	in Yugoslavia 5418
atkinsoni, Adisura	aggression in 1333	in grassland, effects of cutting on 3434
atlanis, Melanoplus sanguinipes atlantica, Hadena (Polia)	competing with, Acromyrmex octospinosus 1333	on apple, in Norway 5605 on paim trees, in Florida 5583
atlantica, Polia (see Hadena atlantica)	octospinosus 1333 control of	preyed on by, Dryinidae 256
atlas, Attacus	haits for 244	audax, Phidippus
Atomaria linearis	insecticides for 244	Aulacaspis cinnamomi (see A. tubercularis)
control of, insecticides for 464 in Belgium 464, 6533	Dufour's glands in, volatile compounds in 4235	Aulacaspis rosae in New Zealand 160
in Poland 4041	fungus feeding in 241	on blackberry, in New Zealand 160
on sugar-beet	in Brazil 244	on rose, in New Zealand 160
damage caused by 4041	in Costa Rica 5171 in Trinidad and Tobago 1333	on youngberry, in New Zealand 160
in Belgium 464, 6533 in Europe 1523	on Pinus, in Costa Rica 5171	Aulacaspis rosarum in New Zealand 160
atomaria. Parongig	recruitment in 1335	on boysenberry, in New Zealand 160
atomosa, Exelastis	territorial pheromone in 2694	Aulacaspis tubercularis
Atomosia puella in USA 3857	Atta laevigata control of, insecticides for 188, 189, 5460	in New Hebrides 2935 on coconut, in New Hebrides 2935
predatory behaviour in 3857	cyclodiene insecticides in, effects on	preyed on by, Sukunahikona prapawan, is
prey of 3857	respiration of 5460	New Hebrides 2935

_		
ulacophora foveicollis	Australia contd.	Autographa californica
food-plants of 2349	cassava in, arthropod pests of 4592	attractants for 632
hemocytes in 2181 in India 2349	Cicindela spp. in 19	control of
on Commelina, in Andhra Pradesh 2349	Citrus in, biological control on 5949 Copiphorini in 5292	biological 4066
on pumpkin, varietal preferences of 3001	Dacus spp. in 701	insecticides for 1487 mating disruption for 632
ulacophora intermedia (see A. lewisii)	Drosophila spp. in 3775	traps for 5646
ulacophora lewisii	fruit trees in, biological control on 5950	in Canada 632
food-plants of 2349	grain-field weeds in, biological control of	in USA 1487, 4066, 5646
in India 2349 on Commelina, in Andhra Pradesh 2349	5946 Ichneumonidae in 4461	nuclear polyhedrosis virus in 1639, 200
ulacorthum circumflexum, insecticide	integrated control in 5943	4060, 5235, 6679, 6688 antigens of 608, 3692
bioassay using 2008	Lantana camara in	effects of digestive juices on 1627
ulacorthum solani	Octotoma championi for biological	formulations of 4066
alfalfa mosaic virus in, transmission of 5049	control of 1907 Uroplata spp. for biological control of	genome of 1124 localisation in vertebrate cell lines of
Entomophthora spp. in, in France 5693	1907	3168
in East Germany 2939	lucerne in, biological control on 5951	production in cell cultures of 2617
in France 2026, 5693	oilseed crops in, biological control on	proteins in 3690
in New Zealand 1504, 5049 in UK 2104	5952 pastures in, biological control in 5951	restriction maps of 4682 suceptibility of other insects to 3694
insecticide resistance in, detecting and	pesticide use in 623	temperature-sensitive mutants of 468
measuring of 3709	Pinus radiata in, insect pests of 5797	4681
legume yellows virus in, transmission of 3003	rangeland weeds in, biological control of 5945	UV resistance in 610 on cotton, in Arizona 4066
on lucerne, in New Zealand 5049	Scarabaeidae in, mites on 5290	on lettuce
on potato	Scolytoidea in 5144	in Arizona 5646
distribution pattern of 2026	small fruits in, biological control on	in California 1487
in France 5693 in Scotland 2104	5947 Tettigoniidae in 1841	sex pheromone of 632 viruses in, not affecting Apis mellifera
on strawberry, in East Germany 2939	vegetable crops in, biological control on	1629
parasitised by, Aphidiidae, in France	5948	Autographa gamma
5693	Australian Capital Territory,	control of, biological 5839
population dynamics of 2026 potato leaf roll virus in, transmission of	Asterolecanium vittatum in, on Acacia 2595	in Egypt 4357 in Japan 4287
2104	australicum, Trichogramma	in USSR 5839
subterranean clover red leaf virus in, in	australiensis, Deltomyza	Nosema bombycis in, pathogenicity of
New Zealand 1504	australiensis, Eupelmus	5241
ulacus striatus, in Poland 3602 ulocara elliotti	australis, Goniophthalmus australis, Leptoglossus	on cabbage, in Maritime Territory 583 parasitised by
in USA 1244	australis, Perilampus	Apanteles ruficrus 2335
life-span in, effects of temperature on	australis, Scapanes	Microplitis marshalli 2335
1244	australis, Scolypopa Austria	M. tuberculifera 2335 pest status of 4287
on Agropyron smithii damage caused by 1940	Aphidoidea in	Autographa ni (see Trichoplusia ni)
development of 1244	natural enemies of 4451	Autographa nigrisigna
effects of plant growth regulators on	on Capsicum 5708	in Japan 4287
4959 reproduction in, effects of temperature on	Aphis fabae in, on sugar-beet 1525 arthropod pests in 1755, 1756	pest status of 4287 Autographa precationis
1244	Barypeithes austriacus in, on Pinus 4638	biology of 458
Aulonium trisulcum	Cnephasia pasiuana in, on grain crops	in USA 458
in Netherlands 532	5026 Domitomus suretus in on Bonulus 3603	on soyabean, development of 458
on <i>Ulmus</i> , in Netherlands 532	Dorytomus suratus in, on Populus 3603 Eupoecilia ambiguella in, on grapevine	autographus, Dryocoetes autumnaria, Ennomos
urantiaria, Agriopis (Erannis)	3988	avellanae, Phytocoptella (see Phytoptus
urantiaria, Erannis (see Agriopis	Euzophera cinerosella in, on Artemisia	avellanae)
aurantiaria) urantii, Aonidiella	1905 Helicomyia saliciperda in, on Salix 2583	avellanae, Phytoptus (Phytocoptella) Avena sativa (see Oats)
urantii, Prospaltella	Lymantria dispar in, natural enemies of	Avena sterilis, Oulema melanopus on,
urantii, Scirtothrips	4089	resistance to 865
urantii, Toxoptera	L. monacha in 4637	avenae, Macrosiphum (see Sitobion avenae
urata, Cetonia urata, Eupteryx	Myzus persicae in, on sugar-beet 1525 Tenthredinidae in	avenae, Sitobion (Macrosiphum) Avermectins
uratus, Carabus	natural enemies of 5773	against, Tribolium confusum, in flour
uratus, Diachus	on forest trees 4627, 5746	3219
nureocincta, Podosesia	Trialeurodes vaporariorum in on ornamental plants 5734	insecticidal activity of 644 avetianae, Ageniaspis
nureus, Sminthurinus nuricilia, Chilotraea (see Chilo auricilius)	on tomato 5734	Avirosan (see Dimethametryn, with
uricilius, Chilo (Chilotraea)	austriaca, Anisoplia	piperophos)
nuricollis, Meliscaeva (Syrphus)	austriaca, Eurygaster	Avocado (Persea americana) Amblypelta spp. on, damage caused by
nuricollis, Syrphus (see Meliscaeva auricollis)	austriaca, Vespula austriacus, Barypeithes	972
nuricularia, Forficula	austrinus, Dactylopius	Atrichopogon spp. on, in South Africa
nuripila, Lycoriella	Austroasca alfalfae	4557
nuriventris, Boopedon	control of, insecticides for 3447 in Australia 3447	Boarmia selenaria on, in Israel 3489 Conotrachelus spp. on
auronitens, Carabus (Chrysocarabus) auronitens, Chrysocarabus (see Carabus	on lucerne, in Queensland 3447	in Central America 400
auronitens)	Austroasca viridigrisea	in Mexico 400
nuropunctata, Wasmannia	control of, insecticides for 3447	Dacus tryoni on, damage caused by 97
nurota, Anaphaeis nurovittata, Lindbergina	descriptions of 2416 in Australia 2416, 3447	Dagbertus fasciatus on, in Florida 455 D. olivaceus on, in Florida 4558, 4559
Austracris, taxonomy of, synonym of	nymphal development in 2416	Forcipomyia spp. on, in South Africa
Cyrtacanthacris 233	on lucerne, in Queensland 3447	4557
Austracris guttulosa (see Cyrtacanthacris	Austromicromus tasmaniae (see also	Monolepta spp. on, damage caused by 972
guttulosa) Australia (see also individual States and	Austromicromus tasmaniae (see also Micromus tasmaniae)	Saissetia oleae on, in Chile 4174
Territories)	development in, effects of temperature on	Avocado (stored fruit)
Aphididae in, on legumes 2929	4058	fumigants in, residues of 1121
aquatic weeds in, biological control of 5944	in Australia 4058 in cotton fields, in Queensland 4058	pest control in, fumigants for 1615 avocadonis, Forcipomyia
biological control in 3185, 5930, 5934,	reproduction in, effects of temperature on	avulsus, Ips
5936, 5938, 5940	4058	Axiagastus cambelli
Caprithrips spp. in 6027	autodice, Tatochila	control of, biological 3698, 4179

```
Axiagastus cambelli contd.
   in Solomon Islands 3698, 4179
    on coconut, in Solomon Islands 3698,
        4179
Axiidae, taxonomy of 5295
Axonopus, Oxya yezoensis on, ovarian development in 39
Axylia
flight activity in 5378
in Romania 5378
AY-22342 (see 2,6-Nonadienoic acid, 7-
ethyl-9-(3-ethyl-3-methyloxiranyl)-3-
methyl-, methyl ester)

Aylax papaveris
biology of 5713
    control of, cultural 5713
   in France 5713
in Poland 3702
    on Papaver somniferum
       damage caused by
                                        3702
       in France 5713
   parasitised by, Trichomalus spp., in France 5713
ayyari, Tetrastichus
Ayyaria chaetophora
in Thailand 2539
on cotton, in Thailand 2539

Azadirachta indica
antifecdant activity of extracts of 3834,
4494, 6203
review 637
antifeedant activity
    antifeedant activity of extracts of seeds of
    antifeedant activity of oil from 339
    antifeedant activity of powdered seeds of
         1032
   growth regulator activity of extracts of
4494, 4712
review 637
    insecticidal activity of extracts of 3944
    Latoia lepida on, in Andhra Pradesh
         2350
Azadirachta indica cake, as fertilizer for
     Litchi chinensis, effects on Argyroploce
leucaspis of 6497
Azadirachtin, in Azadirachta indica 637, 3834
Azinphos-ethyl (O,O-diethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl]
     phosphorodithioate)
    against
       Irenimus compressus, on black currant
             6720
   Nilaparvata lugens, on rice 3970
Pollinia pollini, on olive 6494
Tetranychus urticae 6716
in cherry, residues of 5582
in rice-fields, causing outbreaks of
Nilaparvata lugens 3389
in strawberry, residues of 5582
with methamidophos, in mouse, toxicity
of 4392
         of 4392
    with triazophos, against,

Polyphagotarsonemus latus, on cotton
1544
Azinphos-methyl (O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate)
    against
       Aleurocanthus woglumi, on Citrus
             3502
        Anthonomus grandis 1150
A. signatus, on strawberry
Archips rosanus, on apple
                                                     4551
       Bemisia tabaci, on tomato 5703
Brevipalpus californicus, on Citrus 978
        Cydia molesta, on peach 3486
C. pomonella, on pear 3483
Dialeurodes citri, on Citrus 29
        Empoasca fabae, on potato 3533
        Eriosoma lanigerum, on apple 5885
Euproctis chrysorrhoea, on Rubus 668
Irenimus compressus, on black currant
             6720
        Lygus lineolaris, on strawberry 364, 366
       Macrodactylus subspinosus, on
grapevine 3457
Myzus persicae, on potato 3535
Otiorhynchus cripricollis, on olive
        O. sulcatus 505
        Pandemis cerasana, on apple 4551
```

```
Azinphos-methyl contd.
                                                                                                     Bacillus cereus contd.
     against contd.
                                                                                                          in contd.
                                                5886
                                                                                                               Chilo infuscatellus, pathogenicity of
          Panonychus ulmi
              on apple 6238
                                                                                                                     2618
          Phyllocnistis citrella, on Citrus 2968
                                                                                                               Choristoneura fumiferana, mode of
          Saissetia oleae, on olive 986
                                                                                                                     action of 1621
          Spodoptera frugiperda 5265
                                                                                                               Corcyra cephalonica, pathogenicity of
    Spodoptera trugpperda 5265
Sylepta derogata, on cotton 2538
Tetranychus urticae 965, 5886
Zabrus tenebrioides, on wheat 2362
in apple orchards, effects on predatory arthropods of 5072
in cherry, residues of 5582
in Macrocentrus ancylivorus, toxicity of 3486
                                                                                                                     2618
                                                                                                              Ephestia elutella, in Yugoslavia 2107
E. kuehniella, in Yugoslavia 2107
Myllocerus subfasciatus, pathogenicity
                                                                                                                     of 2618
                                                                                                               Pectinophora gossypiella, pathogenicity
                                                                                                                             603
            3486
                                                                                                               Phthorimaea operculella, pathogenicity
     in Neoseiulus fallacis, toxicity of 965
                                                                                                                     of 2618
     in pear orchards, non-target effects of 3483
                                                                                                               Spodoptera frugiperda, in Cuba 2107
S. litura, in Maharashtra 2618
     in strawberry, residues of 5582
                                                                                                      Bacillus coagulans
chitinase in 4895
          Typhlodromus occidentalis, toxicity of 965
                                                                                                          in, Lymantria dispar, pathogenicity of 4895
     in Typhlodromus pyri, toxicity of 965
                                                                                                      Bacillus larvae, in, Apis mellifera, diagnosis of 1624
     resistance to, in
          predatory mites 963
Tetranychus urticae
                                                                                                     Bacillus leatimorbus, against, Holotrichia
consanguinea 3161
Bacillus moritai, in, Apis mellifera, no
effects from 1629
     and negative cross-resistance 1155 in New Zealand 1155 synergists for 1150 with Bacillus thuringiensis, antagonistic
                                                                                                     Hacillus polymyxa, in, Pectinophora
gossypiella, pathogenicity of 603
Bacillus popilliae
against, Holotrichia consanguinea
extrachromosomal DNA in 611
            668
     with fungicides, against, pests and diseases of Chrysanthemum 4613
     with methamidophos
          against
                                                                                                          gene transfer from B. thuringiensis to
              Spodoptera littoralis 5723
                                                                                                                 4813
                   on cotton 5718
          in mouse, toxicity of 4392
                                                                                                               Cyclocephala spp., in Ohio 6204
     with oil emulsion
                                                                                                               Lepidiota stigma, pathogenicity of
                                                                                                                                                                                       616
with oil emulsion
against, Saissetia oleae, on olive 986
in parasitic insects, toxicity of 5631
in predatory insects, toxicity of 5631
with pirimicarb, against, Myzus persicae,
on potato 3535
Azinphosethyl (see Azinphos-ethyl)
Azinphosmethyl (see Azinphos-methyl)
Aziridine, 1,1',1"-phosphinothioylidynetris-
(see Thiotepa)
Azocyclotin (1-(tricyclohexylstannyl)-1H-
1,2,4-triazole)
acaricidal activity of 2640
                                                                                                               Popillia japonica
                                                                                                                   depletion of reserves caused by
                                                                                                                                                                                     3685
                                                                                                     depletion of reserves caused by 36 in Connecticut 6204 in Ohio 6204 review 3682 strains of 6204

Bacillus rossius, baculovirus in, pathogenicity of 6673

Bacillus sphaericus, in, Apis mellifera, no effects from 1629

Bacillus thuringiensis
 acaricidal activity of 2640
Azodrin (see Monocrotophos)
                                                                                                          against
                                                                                                               Achaea janata, on castor 5711
Acrolepiopsis assectella, on leek 470
Agrotis ipsilon 3890
 Azolla
     insect pests of, in Orissa 278
     pest control on, insecticides for 278
                                                                                                               Anticarsia gemmatalis, on soyabean
 Azolla anabaena
                                                                                                                      3007
      Cryptoblabes gnidiella on, in Orissa
                                                                                                               armyworms 3698
      Nymphula responsalis on, in Orissa 858
                                                                                                               Choristoneura fumiferana 5205
Azotus, parasitising, Aleurolobus barodensis, in Uttar Pradesh 2352

Azteca, on Ochroma pyramidale, nectar production and 4972
                                                                                                                   on Abies 6609
                                                                                                               Dendrolimus superans 5765
Diprionidae, on Pinus 5741
                                                                                                               Eupoecilia ambiguella, on grapevine 5589
Baam (see Amitraz)
baburini, Oppiella
baccarum, Dolycoris
Baccha elongata
in Poland 2438
preying on, Aphididae, in Poland 2438
Baccharis, Aonidomytilus espinosai on, in
Chile 4444
                                                                                                               Geometridae, on apple 1452
Hyphantria cunea, on Acer 3075
                                                                                                              Lobesia botrana, on grapevine 5589
Loxostege sticticalis, on lucerne 3156
Lymantria dispar
on forest trees 577
on Quercus 3098
Mamestra brassicae, on cauliflower
Baccharis halimifolia
Aristotelia spp. on, and biological control
using, in Queensland 5498
control of, biological 5945
insect enemies of, defence mechanisms
against 4912
Trirhabda bacharidis on, and biological
control using, in Queensland 5498
Baccharis macrantha, Scrobipalpopsis
vergarai on, in Colombia 4728
Baccharis pilularis, Rhopalomyia californica
on, in California 833
bacharidis, Trirhabda
Bacillariophyceae, on Schistocerca gregaria,
effects of 2318
Hacillus
 Baccharis halimifolia
                                                                                                               Ostrinia nubilalis, on maize 2891
                                                                                                               Papilio spp., on Citrus pests of Quercus 3098
                                                                                                                  ests of vegetable crops
                                                                                                         pests of vegetable crops 1668
Plusia spp., on soyabean 3007
Popillia japonica 3684
Thymelicus lineola, on Phleum 3978
bibliography 5973
crystal formation in, effects of cultivation in Mythimna separata on 619
formulations of, properties of 627
gene transfer to B. popilliae from 4813
genetic improvement of 4807
in
 Bacillas
                                                                                                               Apis mellifera, not pathogenic
Bombyx mori 5495
         Ataenius spretulus, in Ohio 6204
Costelytra zealandica, effects on
insecticide susceptibility of 5873
                                                                                                               effects on mid-gut of 3689
in Japan 3169
Choristoneura fumiferana, mode of
 Bacillus cereus
                                                                                                                      action of 1621
                                                                                                               Galleria mellonella
          Amsacta lactinea, pathogenicity of
                 2618
                                                                                                                   defence mechanisms against 5848
```

scillus thuringiensis contd.	Bacillus thuringiensis var. kurstaki contd.	Bacillus thuringiensis var. kurstaki contd.
in contd.	against contd.	with phosalone
Galleria mellonella contd.	Nilaparvata lugens, on rice 3944	against
Streptococcus faecalis preventing	Operophtera brumata	Hyphantria cunea 5847
infection by 4134	on Populus 3610	pests of rice 3941
Heliothis zea, interactions with other	on Quercus 6628	with propoxur, antagonistic 668
pathogens of 1626	Ostrinia nubilalis, on maize 3887	with pyrethrins, antagonistic 668
livestock, not pathogenic 627	pests of Chrysanthemum 4613	with tetrachlorvinphos
Lymantria dispar, in Portugal 4652	pests of fruit trees 5065	against, Lymantria dispar 5847
man, not pathogenic 627	pests of rice 3941	antagonistic 668
oak forests, not affecting beneficial	Plathypena scabra, on soyabean 2041	with Vairimorpha necatrix
insects 3098	Plodia interpunctella	against
soil, effects of pH on 5245	in rye grain 594, 3129	Heliothis zea, on soyabean 2041
Trichoplusia ni cell lines, cytotoxicity of	in wheat meal 1632	Plathypena scabra, on soyabean
5851	Plutella xylostella, on cabbage 5657	2041
insect control using 627, 5248, 6691	Scirpophaga incertulas, on rice 4515	Bacillus thuringiensis var. kyushuensis
use of, in China 2625 with Baculovirus heliothis, against, pests	Sesamia inferens, on rice 329, 4515	characterisation of 3155
of soyabean 459	Thaumetopoea pityocampa, on Pinus	in
with chitinase, against, Choristoneura	3609 Thymelicus lineola, on Phleum 3978	Bombyx mori, not pathogenic 3155
fumiferana 5205	Tortrix viridana, on Quercus 6628	Culex tritaeniorhynchus, pathogenicity
with chlordimeform, against, Earias	bioassay for, with Bombyx mori 3687	of 3155
insulana, on cotton 4384	extrachromosomal DNA in 611	Musca domestica, not producing
acillus thuringiensis var. aizawai	formulations of 6632	exotoxin 3155
bioassay for, with Bombyx mori 3687	spray equipment for 3887	Bacillus thuringiensis var. morrisoni
in, Bombyx mori, in Japan 3169	in	in
acillus thuringiensis var. alesti, in, Bombyx	birds, not pathogenic 5846	Bombyx mori, in Japan 3169
mori, in Japan 3169	Bombyx mori	Ephestia elutella, in Yugoslavia 2107
acillus thuringiensis var. canadensis, in,	activation of latent virus by 5246	E. kuehniella, in Yugoslavia 2107
Bombyx mori, in Japan 3169	pathogenicity of 5246	Lymantria dispar, effects of diet on
acillus thuringiensis var. darmstadiensis,	Ephestia cautella, effects on mid-gut of	susceptibility to 4653
in, Bombyx mori, in Japan 3169	4140	Bacillus thuringiensis var. sotto
acillus thuringiensis var. dendrolimus	E. elutella, in Yugoslavia 2107	extrachromosomal DNA in 611
against	E. kuehniella, in Yugoslavia 2107	in
Dendrolimus superans 5765	Manduca sexta	Bombyx mori, in Japan 3169
Lycia hirtaria, on apple 2957	effects on mid-gut of 6676	mulberry-orchard soils, not persisting
Lymantria dispar, on Quercus 3098	effects on mid-gut transport of 3250	6681
in, oak forests, not affecting beneficial	oak woodland, effects on parasitic	Bacillus thuringiensis var. subtoxicus
insects 3098	insects of 3100	in .
acillus thuringiensis var. finitimus	Plodia interpunctella, effects on mid-gut	Euproctis chrysorrhoea, effects of diet
against, Pectinophora gossypiella 603	of 4140	on susceptibility to 4653
extrachromosomal DNA in 611	Plutella xylostella, in Yugoslavia 2107	Galleria mellonella
acillus thuringiensis var. galleriae	rye grain, persistence of 594	defence mechanisms against 5848
against 5839	soil, effects of pH on 5245	induction of phagocytosis of 3165
Artogeia rapae 5839 Euproctis similis	insect control using 627 insecticidal activity of 5845	Bacillus thuringiensis var. thuringiensis against
on almond 5840	parasporal crystals of	Aporia crataegi 2616
on apricot 5840	dissolution without loss of pathogenicity	Artogeia rapae, on cabbage 5838, 583
Lymantria dispar, on Quercus 3098	of 5857	Autographa gamma, on cabbage 5839
pests of apple 2945	separation of spores and 5855	Dendroctonus micans 2616
Plutella xylostella 5839	ultrastructure of 5858	Erannis defoliaria 2616
in	spores of, separation of parasporal crystals	Euproctis similis
oak forests, not affecting beneficial	and 5855	on almond 5840
insects 3098	with acephate	on apricot 5840
Trichogramma embryophagum, not	against	Ips typographus 2616
pathogenic 1706	Choristoneura fumiferana	Leptinotarsa decemlineata, on potato
with carbaryl, against, Orgyia gonostigma,	on Abies 6632	3532
on fruit trees 3464	on Picea 6632	Lymantria dispar 2616
with insecticides, against, Cydia	with amitraz, against, Heliothis armigera,	Mamestra brassicae, on cabbage 5838
pomonella, on apple 3469	on bean 1699	5839
with phosalone, against, Orgyia	with azinphos-methyl, antagonistic 668	Pectinophora gossypiella 603
gonostigma, on fruit trees 3464	with carbaryl	Plutella xylostella, on cabbage 5839
with tetrachlorvinphos, in Trichogramma	against, Hyphantria cunea 5847	Prays oleae, on olive 2457
embryophagum, toxicity of 1706	antagonistic 668 with chitinase 3609	Sitophilus granarius, in wheat grain 587
with trichlorphon, against, Orgyia		
gonostigma, on fruit trees 3464 acillus thuringiensis var. kenyae, in,	with chlordimeform, against, <i>Heliothis</i> armigera, on bean 1699	Tetranychus urticae, on Phaseolus vulgaris 203
Bombyx mori, in Japan 3169	with chlorfenvinphos, antagonistic 668	Tortrix viridana 2616
acillus thuringiensis var. kurstaki	with DDT, against, Euproctis	formulations of 5837
against	chrysorrhoea, on Rubus 668	in
Achaea janata, on castor 5711	with dichlorvos, against, pests of rice	cabbage fields, effects on predatory
Adisura atkinsoni, on Lablab purpureus	3941	insects of 5839
426	with dieldrin, against, Euproctis	Choristoneura fumiferana, effects on
Anarsia lineatella, on peach 5615	chrysorrhoea, on Rubus 668	cell membranes of 6685
Boarmia selenaria, on avocado 3489	with diflubenzuron	Dendroctonus micans, in Georgia
Chilo auricilius, on rice 4515	against	(USSR) 2616
Choristoneura fumiferana	Euproctis chrysorrhoea, on Rubus	Ephestia kuehniella, in Yugoslavia
on Abies 6632	668	2107
on Picea 6632	E. melania 3798	Euproctis chrysorrhoea, in Yugoslavia
Cydia molesta, on peach 5615	with fenvalerate, against, Trichoplusia ni,	2107
Ephestia cautella, in wheat meal 1632	on kale 4906	Ips typographus, in Georgia (USSR)
Euproctis chrysorrhoea, on Rubus 668	with heptachlor, against, Euproctis	2616
E. melania 3798	chrysorrhoea, on Rubus 668	Lymantria dispar
Heliothis spp., on cotton 5725	with lindane, against, Euproctis	effects of diet on susceptibility to 4653
H. armigera	chrysorrhoea, on Rubus 668	in Portugal 4652
on Lablab purpureus 426	with nuclear polyhedrosis virus, against, Lymantria monacha, on conifers	Sesamia cretica, effects on parasites of
on tomato 6550 H. virescens	2061	5860
on cotton 4060	with permethrin	insect control using 627
on tobacco 2041	against	strains of 2616
H. zea, on soyabean 2041	Operophtera brumata, on Quercus	Bacillus thuringiensis var. toumanoffi,
Leucoma salicis, on Populus 6629	6628	antigens of 3155
Lymantria dispar, on Quercus 3100	Tortrix viridana, on Quercus 6628	baconis, Anthaxia

Bacteria	Baculoviridae contd.	Bagasse, diet component for, Anastreph
genetic improvement of 4813	in contd.	ludens 1666
A matic analomationis in Doland 1964	Cydia pomonella, characterization of 6671	Bagrada cruciferarum (see B. hilaris)
Agrotis exclamationis, in Poland 1864 A. segetum, in Poland 1864	Ephestia cautella, characterization of	Bagrada hilaris control of, insecticides for 2475
Bombyx mori 5495 cotton, associated with Psallus seriatus	6671 Euproctis chrysorrhoea, in Yugoslavia	in India 798, 2475 on <i>Brassica juncea</i> , in Delhi 2475
and excessive ethene production	5863	Baltantas
2548 forest posts 1865	Galleria mellonella infectivity of 4679	Curculionoidea in, natural enemies of 4930
forest pests 1865 insects 2113	recombination of 6679	Danaus plexippus in 2249
diagnostic manual 4139	restriction maps of 4682	Bajra (see Pennisetum americanum)
Lepidiota stigma, in Indonesia 616 Leucopholis rorida, in Indonesia 616	Heliothis armigera, pathogenicity of	bajulus, Hylotrupes Bakerdania sellnicki
Lymantria dispar 4652	6670 H. punctigera	descriptions of 2987
in Yugoslavia 5863 interactions between 2108	passage through predator guts of	in mushroom houses, in Americas 2
Matsucoccus matsumurae, and	6687	bakeri, Hemicheyletia Bakeries
biological control using, in Kiangsu	pathogenicity of 6670 H. virescens	Gibbium psylloides in, in West Germ
Province 567 pests of glasshouse crops, in UK 2654	pathogenicity of 5235	3107 insect pests in, in USSR 1607
Schistocerca gregaria, effects on gut	polyhedral envelope of 5852	Monomorium pharaonis in, in central
carbohydrase activity of 43	H. zea amines in 4686	Europe 120 Bakery products
soil, effects of insecticides on 2141 wheat grain, not associated with mites	pathogenicity of 5235	insect pests of, damage caused by 3:
4120	specificity of 6670	pest control in 3119
Bactericera tremblayi in Turkey 1310	Hyphantria cunea, interactions between methoprene and 6728	Bakthane (see Bacillus thuringiensis van thuringiensis)
on onion, in Turkey 1310	Leucoma salicis, in Yugoslavia 5863	Balaninus elephas (see Curculio elephas
Bactericides	Lymantria dispar	Balanites aegyptiaca, Phyllocoptes balan
in <i>Dendrolimus sibiricus</i> hemolymph 1642	control during rearing of 5795 DNA in 5233	on, in Egypt 393 balanites, Phyllocoptes
in Lymantria dispar hemolymph 1642	in Yugoslavia 5863	Balanogastris kolae
Bacteriocin, in Streptococcus faecalis, preventing infection of host by other	Malacosoma neustria, in Japan 5596 Mamestra brassicae	control of cultural 3654
bacteria 4134	activation of 5849	fumigants for 6664
Bacteroides, in, Reticulitermes flavipes, in	DNA in 4683	timing of 1616
hind-gut 4464 Bactospéine (see Bacillus thuringiensis var.	Mythimna separata, specificity of 5006 M. unipuncta	feeding behaviour in 1616 in kola nuts, damage caused by 161
thuringiensis)	envelope proteins of 4684	on Cola gigantea, development of 30
Bactra, parasitised by, Trichogrammatoidea	synergism between 4684	oviposition in 1616
bactrae 2169 Bactra furfurana, rearing of, techniques for	Nabis tasmanicus, passage through gut of 6687	Balclutha hortensis in Egypt 889, 3394
3871	Neodiprion sertifer, detecting of 6631	on rice, in Egypt 889
Bactra lancealana, rearing of, techniques for 3871	Orgyia pseudotsugata, DNA in 4685 Pericallia ricini 5238	seasonal abundance of 889 sex ratio in 889, 3394
bactrae, Trichogrammatoidea	Pieris brassicae, characterization of	Baldulus tripsaci, maize rayado fino vir
Bactromyiella ficta	6671	transmission of 5532
in Australia 2460 parasitising, Nacoleia octasema, in	pine plantations, non-target effects of 6617	Baliothrips biformis control of, insecticides for 890, 3391
Queensland 2460	Plodia interpunctella, characterization	in Bangladesh 5032
Bactucide (see Bacillus thuringiensis)	of 6671	in India 890, 3391, 3923, 5468, 6414
Baculoviridae against	Plusia spp., in Brazil 5672 Spodoptera frugiperda, replication of	in Indonesia 3415 in Sri Lanka 324
Agrotis segetum, on root crops 6531	6688	on Panicum repens, in Kerala 3923
Chilo auricilius, on rice 4515 Choristoneura fumiferana	S. littoralis characterization of 6671	on Paspalum scrobiculatum, in West Bengal 3391
on Abies 6620	effects on hemolymph amino acids of	on rice
on Picea 6620	6686	damage caused by 3923
Cydia pomonella, on apple 5895 Dynastinae 5439	S. litura 5238 effects of JH on 6684	in Bangladesh 5032 in Indonesia 3415
Heliothis spp., on cotton 4598, 5725	Trichoplusia ni	in Sri Lanka 324
H. zea, on soyabean 6518 Neodiprion lecontei, on Pinus 6617,	replication of 6688 restriction maps of 4682	in Tamil Nadu 890 resistance to 6414
6619 6619	sucrose density gradient centrifugation	varietal preferences of 3391, 3923
Scirpophaga incertulas, on rice 4515	damaging 5854	preyed on by, Anthocoridae, in India
Sesamia inferens, on rice 4515 DNA in, estimating molecular weight of	Baculovirus identifying of 4692	5468 Ballia eucharis
5233	in	in India 1887
formulations of 6619, 6620	Apanteles melanoscelus, characterisation of 1125	preying on, <i>Idioscopus shillongensis</i> , Meghalaya 1887
Adoxophyes orana	Braconidae 5244	Balocha, keys to 3614
activation of 5849	Heliothis armigera, in Tadzhikistan	Balocha astuta 3614
DNA in 4683 Antheraea mylitta, not infective 5006	1636 pig, effects of 3167	Balocha bifurcata sp. nov., description of 3614
Anticarsia gemmatalis, in Brazil 5672	Plusiinae, antigens of 3692	in India 3614
Artogeia rapae, transmission by parasites of 5856	structural properties of 4692 UV resistance in 610	on Eugenia jambolana, in Delhi 361 balsamicola, Dasineura
Autographa californica	Baculovirus bombycis, in, Bombyx mori,	balteata, Diabrotica
restriction maps of 4682	activation by Bacillus thuringiensis of	balteata, Epistrophe (see Episyrphus
temperature-sensitive mutants of 4680, 4681	5246 Baculovirus heliothis (see also Heliothis	balteatus) balteatus, Episyrphus (Epistrophe; Syrp
Bacillus rossius, pathogenicity of 6673	nuclear polyhedrosis virus)	balteatus, Syrphus (see Episyrphus
Bombyx mori activation by Bacillus thuringiensis of	against Heliothis spp. on cotton 5725	balteatus) balticus, Adialytus
5246	Heliothis spp., on cotton 5725 H. virescens, on cotton 4060	Bamboo
not infective 5006	H. zea, on soyabean 6518	Aponychus corpuzae on, in Japan 5
Chilo infuscatellus, in Tamil Nadu 5021	formulations of 6518 with <i>Bacillus thuringiensis</i> , against, pests	Kuwanaspis pseudoleucaspis on, in N Zealand 160
Choristoneura fumiferana, in Ontario	of soyabean 459	Oligonychus sacchari on, in Madhya
6633	badulini, Steneotarsonemus	Pradesh 4295
C. occidentalis, in British Columbia 6637	Baetidae, in forest streams, not affected by nuclear polyhedrosis virus 6617	Schizotetranychus celarius on, in Japa 5018

mboo canes	Baris lepidii contd.	Barley yellow dwarf virus contd.
Dinoderus japonicus in, in Kiangsi	on lucerne, in Ohio 6435	in
Province 860	Barium sulfide (Ba(S _x)), against,	barley
pest control in 860	Quadraspidiotus perniciosus 209, 1450 Bark, extracting arthropods from 4318	damage caused by 5531 effects of 5027
arthropod pests of, in South Africa 988	Bark beetle (see Scolytidae)	grain crops, aphid transmission of
Assuania spp. on, in Kerala 1996	Barleria prionitis, Diacrisia obliqua on,	5069
Basilepta subcostatum on, in Assam	feeding by 5015	oats
1479 Calacarus citrifolii on, in South Africa	Barley (Hordeum spp.) Aphididae on	damage caused by 5531 resistance to, screening for 6154
2982	damage caused by 2876	Rhopalosiphum padi, transmission of
carbaryl in, residues of 184	effects of undersowing on 3433	5027, 6154
fenthion in, residues of 184 Hercinothrips bicinctus on, in South	in Chile 4174	vectors of 3440 barodensis, Aleurolobus
Africa 988, 2982	in England 5519 in South Africa 6360	barretti, Incisitermes
insecticides in, toxicity of 6498	Aphidoidea on, in Kazakhstan 3376	bartletti, Metaphycus
Leptoglossus australis on, feeding by 2242	barley yellow dwarf virus in	Baryopadus corrugatus, taxonomy of, Leptopiinae misidentified as, in
Nacoleia octasema on	damage caused by 5531	Queensland 2482
distribution pattern of 6499	effects of 5027 cereal chlorotic mottle virus in, infectivity	Barypeithes austriacus
in Queensland 2460 Opogona sacchari on, in Brazil 6498	of 867	sp. nov., description of 4638 in Austria 4638
propoxur in, residues of 184	Cnephasia pumicana on, in France 4502	on <i>Pinus sylvestris</i> , in Austria 4638
Schistocerca gregaria on, morphology of	cocksfoot mottle virus in, infectivity of	Basiceros, sting apparatus in 2809
3832	5518	basidactyla, Manoneura (Oligoneura)
Tetranychus lombardini on, in South Africa 988, 2982	Cofana spectra on 287 Cyrtacanthacris guttulosa on, in New	basidactyla, Oligoneura (see Manoneura basidactyla)
Tomaspis insignita on, in Costa Rica	South Wales 822	Basilepta fulvicornis
5086	Eurygaster integriceps on, in Iran 3365	in India 2449
anana pseudostems, Forcipomyia spp. in, in Neotropical region 6011	Haplodiplosis marginata on, in England 6354	on Litchi chinensis, in Uttar Pradesh 2449
mana (stored fruit), pest control in,	isofenchlorphos in, toxicity of 6349	Basilepta subcostatum
fumigants for 1615	Isoptera on, in Haryana 1393	Beauveria bassiana in, in Assam 1479
Inchus flavescens in Canada 996, 4575	Leptopterna dolabrata on, in Scotland 4175	in India 1479 on banana, in Assam 1479
parasitising	methiocarb in, determination of 2273	basizonus, Pleolophus
Hadena atlantica, in Manitoba 996	Metopolophium dirhodum on, varietal	basqueella, Stegasta
Mamestra configurata, in Manitoba	preferences of 6359 Mythimna unipuncta on, in Manitoba	Bassia hyssopifolia, insecticidal activity of
996, 4575 Xestia c-nigrum, in Manitoba 996	996	extracts of 3716 Bassianolide, in Heliothis zea, toxicity of
ıngladesh	Noctuidae on, in Western Australia 6356	2111
Acrididae in, on rice 6424	Oscinella frit on	Basudin (see Diazinon)
Aphodiidae in, in dung 4403 Brevennia rehi in, on rice 6398	damage caused by 1369 in Belorussia 3361	Bat guano, Tinea fictrix in 2089 Bathycoelia thalassina
Ceroplastes pseudoceriferus in, on mango	oviposition by 3801	dispersal of 4079
5087	varietal preferences of 875	flight activity in 4079
Chalcidoidea in 4462 Chilo polychrysus in, on rice 2376, 2901	Oulema spp. on damage caused by 2883	food-plants of 3053 in Ghana 3053, 4079
Chloropulvinaria polygonata in, on mango	in USSR 1386	on cacao, in Ghana 4079
5087	O. melanopus on	on Cola, in Ghana 3053
Chlumetia transversa in, on mango 4012 Coccosterphus bengalensis in, on grasses	in North Carolina 4504 in Ontario 6348	on orange, in Ghana 3053 Bathyplectes anurus
4522	resistance to 865	fecundity in 67
Cofana spectra in, on rice 6424	mechanisms of 6157	oviposition in, effects of host density on
Isoptera in 846 jute in, insect pests of 4495	pest control on, thresholds for 2883, 3360, 3361, 4502	2926 oviposition rate in 67
Nephotettix virescens in, on rice 6404,	Rhopalosiphum padi on, damage caused	parasitising
6424	by 5531	Hypera postica 2926
Nilaparvata lugens in, on rice 2381, 3409 Orgyia postica in, natural enemies of	Schizaphis graminum on damage caused by 2890	and biological control using, in Kentucky 4540
6325	development of 3372	Bathyplectes curculionis
Pteromalidae in 702	effects of ants on 866	biology of 6243
Rastrococcus mangiferae in, natural	feeding by 4503 in Kenya 1390	fecundity in 67 in Finland 3860
enemies of 4447	in Pakistan 1917	in Romania 2414
insect pests of 900, 4495, 5032	Sipha flava on, damage caused by 3372	in USA 356, 1428, 6243, 6436
pest control on 319, 5567	Sitobion avenae on, varietal preferences of 6359	in lucerne fields effects of grazing on 6436
Scarabaeidae in, in dung 4403 Scirpophaga incertulas in	viruses in, in West Germany 1392	effects of insecticides on 356
natural enemies of 6425	Barley (boiled grain), bait component for,	oviposition in, effects of host density on
on rice 2376, 2901	Gryllotalpa spp. 1554	2926 oviposition rate in 67
Sesamia inferens in, on rice 2901 sugar-cane in, insect pests of 4495	Barley fields Coccinellidae in, population density of	parasites of, in Colorado 1428
Thaia oryzivora in, on rice 3964	1918	parasitising
Vigna radiata in, insect pests of 433	entomogenous fungi in, not affected by	Hypera postica 2926 and biological control using
anian, Hieroglyphus anksi, Eutetranychus	fungicides 5524 Oribatei in, in USSR 1306	in Kentucky 4540
arathra brassicae (see Mamestra brassicae)	parasitic insects in, in Kazakhstan 3376	in Pennsylvania 356
arbados	predatory arthropods in, effects of	in USA 6138 in Colorado 1428, 6243
cotton in insect pests of 5121, 5122	undersowing on 3433 predatory insects in, in Kazakhstan 3376	in Oklahoma 6436
pest control on 5122	Barley (stored grain)	in Romania 2414
arbara, Sibine	arthropod pests of, book 1609	Bathyplectes stenostigmus
arbatum, Callipogon arbatum, Praon	insecticides in, uptake from treated surfaces of 2093	fecundity in 67 life-span in 67
arberae, Aphis	lindane in, residues of 5817	oviposition in, effects of host density on
arberi, Sympherobius	Sitophilus oryzae in, oviposition by 6177	2926
Paris lepidii control of	Sitotroga cerealella in development of 6653	oviposition rate in 67 parasitising, <i>Hypera postica</i> 67, 2926
fumigants for 4026	rearing of 1226, 4455	Batocera rubus
insecticides for 4026	Tinea fictrix in 2089	control of
in USA 4026, 6435 on horseradish, in Illinois 4026	Barley yellow dwarf virus aphid transmission of 5437	fumigants for 378 removing infested material for 378
OH HOLDER GUIDIN, HI HIMIOUS TOPO	APARTON VA MANDALINA VI O TO T	

Batocera rubus contd.	Beaucarnea recurvata, Hemiberlesia lataniae	beckii, Mytilococcus (see Lepidosaphes
in India 378 on mulberry, in India 378	on, in Florida 5142 Beauveria	beckii) bedeli, Atractomorpha (see A. lata)
Batocera rufomaculata	bibliography 5973	Beech (see Fagus; Nothofagus)
control of	control of, in insect cultures 3792	Beech, American (see Fagus grandifolia)
fumigants for 378, 991 insecticides for 991	Colaspis spp., in Mexico 1651	Beehives Lepidoptera in, in Norway 4110
removing infested material for 378	Diabrotica spp., in Mexico 1651	mites in, in USSR 602
in India 378, 946, 991	Euproctis similis, in West Germany	Beekeeping (see Apiculture)
on cashew, in India 946 on mango, in Tamil Nadu 991	1104 insects, pathogenicity of 1637	beesoni, Microcerotermes Beeswax, insecticides in, absorption of 678
on mulberry, in India 378	Synanthedon tipuliformis, in New	Beet (Beta vulgaris)
Batrachedra amydraula control of, cultural 2425	Zealand 1444	Aphis fabae on, in Austria 1755 arthropod pests of, in West Germany
in Egypt 2422, 2423, 2425	Beauveria bassiana against	2162
on date palm	Artogeia rapae, on kale 3514	beet yellows virus in, artificial
effects of clean cultivation on 2425 effects of plant height on 2423	Bothynoderes punctiventris 5861	transmission of 5683 Bothynoderes punctiventris on, in Ukrain
in Egypt 2422	Cosmopolites sordidus 2981 Diabrotica speciosa 5107	5249
varietal preferences of 2423 seasonal abundance of 2422	Leptinotarsa decemlineata 5861	Empoasca decipiens on, in Turkestan 2346
Bauhinia, Cysteochila ablusa on, in Punjab	on potato 3024	fensulfothion in, residues of 5090
1558 Paulinia waliii insecticidal activity of	Malacosoma neustria 3158 Nezara viridula 5107	Hymenia recurvalis on, in Chile 4406
Bauhinia vahlii, insecticidal activity of extracts of 3716	Plutella xylostella, on kale 3514	Neoaliturus opacipennis on, in Turkestan 2346
Bauhinia variegata	Sitophilus granarius 587	pest control on, insecticides for 5255
Brevipalpus phoenicis on, damage caused by 5014	Trichoplusia ni, on kale 3514 beauvericin not involved in	Beet curly top virus
Diacrisia obliqua on, feeding by 5015	entomopathogenicity of 2111	Amsinckia douglasiana, causing phloen
Eotetranychus uncatus on	control of, plant extracts for 1360 culture methods for 1088, 1660, 3024,	sap exudation 4319 Neoaliturus tenellus, latent period of
damage caused by 5014 development of 2054	5861	5109
Baycid (see Fenthion)	formulations of 5861	Beet fields, Syrphidae in, in Poland 1892
Baythion (see Phoxim) bazarovi, Metaphycus	fungicides in, toxicity of 3024 in	Beet, fodder (see Mangel) Beet latent rosette, causal agent, vectors of
Bean	Anticarsia gemmatalis, in Brazil 5672	6669
Curculionidae on, in UK 425 decamethrin in, metabolism of 3544	Basilepta subcostatum, in Assam 1479 Chilo auricilius, in Orissa 2903, 4515	Beet mild yellowing virus control of, vector control for 1525, 5685
insect pests of, in Poland 3519	Corythucha ciliata, in Yugoslavia 1088	5687
Liriomyza trifolii on, in Kenya 5415	Curculio caryae, in Oklahoma 2782	in
Ophiomyia phaseoli on, in Thailand 3522	Gelechia hippophaella, in Buryatia 1322	Aphis fabae, transmission of 1524, 1525, 5685
pest control on, biological 1646	Heliothis virescens, effects on	Myzus persicae, transmission of 1524
Bean, bonavist (see Lablab purpureus) Bean, broad (see Vicia faba)	hemolymph proteins of 59 H. zea, pathogenicity of 2111	1525, 5685, 5687 Rhopalosiphoninus staphyleae,
Bean, cluster (see Cyamopsis tetragonoloba)	Hypera postica, in Romania 2414	transmission of 5685
Bean common mosaic virus, control of,	kale, persistence of 3514	sugar-beet
vector control for 5089 Bean, faba (see Vicia faba)	Nephotettix nigropictus, in Orissa 2903	in Austria 1525 in Belgium 1524
Bean, field (see Vicia faba)	N. virescens, in Orissa 2903	in Switzerland 5687
Bean, French (see <i>Phaseolus vulgaris</i>) Bean golden mosaic virus	Phyllophaga spp., in Mexico 1660 rice hoppers, in Thailand 911	in UK 5685 Beet mosaic virus
control of, vector control for 4033	Scirpophaga incertulas, in Orissa 4515	in
in Remisio tabasi transmission of 4022	soyabean, persistence of 3514	Aphis fabae, transmission of 1524
Bemisia tabaci, transmission of 4033 Phaseolus vulgaris, in Cuba 4033	Spodoptera eridania, effects on hemolymph proteins of 59	Myzus persicae, transmission of 1524 sugar-beet
Bean, jugo (see Voandzeia subterranea)	S. frugiperda, effects on hemolymph	effects on Aphis fabae of 4749
Bean, Lima (see Phaseolus lunatus) Bean, long (see Vigna unguiculata)	proteins of 59 Tenebrionidae, in Queensland 1919	effects on Tetranychus urticae of 4749
Bean meal, diet component for, Ostrinia	insect control using 626	in Belgium 1524
nubilalis 812, 813 Bean, moth (see Vigna aconitifolia)	insect hormones in, effects of 3720 nutrition of 2782	in Poland 4040 Beet, red (see Beetroot)
Bean, mung (see Vigna mungo; Vigna	physiology of 2782	Beet, sugar (see Sugar-beet)
radiata)	sporulation in 5107 toxins of 2652	Beet western yellows virus
Bean, navy (see Phaseolus vulgaris) Bean, rice (see Vigna umbellata)	use of, in China 2625	aphid transmission of 5437 hosts of 396
Bean, snap (see Phaseolus vulgaris)	with kelevan, against, Leptinotarsa	in
Bean, soya (see Soyabean) Bean (stored seeds)	decemlineata, on potato 6539 with parathion, against, Leptinotarsa	Myzus persicae, transmission of 396, 4590
Acanthoscelides obsoletus in, in Bulgaria	decemlineata 5861	sugar-beet, in Washington 4590
375 insect pests of, in Nigeria 3651	with parathion-methyl, against, Leptinotarsa decemlineata 5861	Beet yellow stunt virus 4690 Beet yellows virus 4690
Sitophilus zeamais in, not ovipositing	Beauveria brongniartii	control of, vector control for 1525, 1757
2086	against Chilo auricilius, on rice 2904	5089, 5685, 6532
Bean, winged (see Psophocarpus tetragonolobus)	Leptinotarsa decemlineata 4135	Aphis fabae, transmission of 1524,
Bean yellow mosaic virus	Plûtella xylostella 4135	1525, 5685
control of, vector control for 5089	Scirpophaga incertulas, on rice 2904 Sesamia inferens, on rice 2904	A. gossypii, transmission of 6532 beet, artificial transmission of 5683
Aphis craccivora, transmission of 442	formulations of 4135	Myzus persicae, transmission of 1524,
A. glycines, transmission of 442 Vigna radiata, in Philippines 442	in, <i>Pelopidas mathias</i> , pathogenicity of 2614	1525, 5683, 5685, 6532 Rhopalosiphoninus staphyleae.
Bean yellow stipple virus	mutants of, virulence of 3164	transmission of 5685
hosts of 4034	Beauveria tenella	sugar-beet
Aphis craccivora, not transmitted	against, Melolontha melolontha 2117 hosts of 2117	in Austria 1525 in Belgium 464, 1524
4034	insect control using 626	in England 1757
Cerotoma ruficornis, transmission of 4034	Beauvericin in Beauveria bassiana, not involved in	in France 3530 in Poland 4040, 4041
Diabrotica balteata, transmission of	entomopathogenicity 2111	in Spain 6532
4034 Myzus persicae, not transmitted 4034	in Heliothis zea, not toxic 2111 Beauverin (see Beauveria bassiana)	in UK 5685 vectors of, traps for 3530
Phaseolus vulgaris, in Cuba 4034	beckii. Lepidosaphes (Mytilococcus)	vectors or, traps for 5550

•		, ,
etroot (Beta vulgaris)	Bemisia tabaci contd.	Benzamide, N-[[[5-(4-bromophenyl)-6-
Agrotinae on, in Poland 1864	on cotton contd.	methyl-2-pyrazinyl]amino]carbonyl]-2-
Agrotis segetum on, in Denmark 6531	in Honduras 3557	chloro-, against, Lycoriella mali, on
aldrin in, uptake from soil of 5680	in Pakistan 2038	mushroom 4016
Chaetocnema concinna on, in Finland	in Thailand 2539	Benzamide, N-[[[5-(4-bromophenyl)-6-
1490	varietal preferences of 3819	methyl-2-pyrazinyl]amino]carbonyl]-2,6
lindane in, residues of 6723	on okra, viruses transmitted by 4341	dichloro-
Phyllotreta spp. on, in Finland 1490	on Phaseolus vulgaris, in Cuba 4033	against
P. undulata on, not feeding 4018 irnei, Swammerdamia	on Solanum, in Brazil 2015	Choristoneura fumiferana 1167
elah (see Casuarina lepidophloia)	on soyabean	Heliothis armigera, on cotton 208
elgium	in Brazil 2015	in Abies balsamea, persistence of 1167
agricultural entomology in 2165	in Egypt 1013 on tobacco, in Zimbabwe 3049	in Lymantria dispar, inhibition of chitin
Aphis fabae in, on sugar-beet 1524	on tomato	synthesis by 4882
biological control in 6691	in Egypt 2500	in Picea glauca, persistence of 1167 Benzamide, 2-chloro-N-[[[3,5-dichloro-4-(4-
Carabidae in, in sugar-beet fields 3823	in Jordan 5703	nitrophenoxy)phenyl]amino]carbonyl]-
Conopia myopaeformis in, on apple 3806	in Uttar Pradesh 471	against
Delia brassicae in, on brussels sprouts	on Vigna radiata	Ephestia cautella, in wheat grain 590
216, 3809 Dutch elm disease in 3824	in India 441	Oryzaephilus surinamensis, in wheat
Liriomyza bryoniae in, on tomato 221	resistance to 444	grain 590
Myzus persicae in, on sugar-beet 1524	on yam, in Togo 3029	Plodia interpunctella, in wheat grain
Scolytus multistriatus in, on Ulmus 3824	parasites of	590
S. scolytus in, on Ulmus 3824	effects of insecticides on 6567	Rhyzopertha dominica, in wheat grain
Staphylinidae in, in wheat fields 295	in Israel 6567	590
sugar-beet in, arthropod pests of 464,	plant viruses transmitted by, review 3148	Sitophilus granarius, in wheat grain
6533	population dynamics of 6567	590
Tetranychus urticae in, on tomato 221	seasonal abundance of 4033	S. oryzae, in wheat grain 590
Trialeurodes vaporariorum in, on tomato 221	sweet potato yellow spot virus in, transmission of 3025	Tribolium confusum, in wheat grain 590
elize	tobacco leaf curl virus in, transmission of	Benzamide, N-[[(4-chlorophenyl)amino]carl
Neodiprion excitans in	471, 2500, 4341, 6572	onyl]-2,6-difluoro- (see Diflubenzuron)
natural enemies of 1071	tomato yellow leaf curl virus in,	Benzamide, 2-chloro-N-[[[4-
on Pinus 1071	transmission of 2500, 5703	(trifluoromethoxy)phenyl]amino]carbon;
lla, Euaresta	traps for 5425	l]-, against, Lycoriella mali, on
llicosus, Macrotermes	Bendiocarb (2,2-dimethyl-1,3-benzodioxol-4-	mushroom 4016
llulus, Dicranolaius	yl methylcarbamate)	Benzamide, N,N-diethyl-3-methyl- (see
elmark (see Fenvalerate)	against 218	Deet)
elostoma, on man, bites by 3781 Elvosia bicincta	Agriotes spp., on maize 218	Benzamide, 2,6-difluoro-, in Anthonomus grandis, penfluron metabolite 3754
in Brazil 3054	Anoplolepis longipes 825 Delia brassicae, on radish 5097	Benzamide, 2,6-difluoro-N-[[[4-
parasitising, Eacles magnifica, in Brazil	Melolonthidae, in lawns 4939	(trifluoromethyl)phenyl]amino]carbonyl
3054	Nilaparvata lugens, on rice 339	in Anthonomus grandis
lytinae, hosts of 2340	Oscinella frit, on maize 218	effects on mating competitiveness of
embidion decorum	Pheidole spp., on Phalaris 5576	2723
descriptions of 33	P. megacephala 5264	metabolism of 3754
in Czechoslovakia 33	Plutella xylostella, on cabbage 5657	sterilant for, Anthonomus grandis 1049
embidion quadrimaculatum	in lucerne, not toxic 5576	2726
in USA 1394	in Phalaris aquatica, not toxic 5576	Benzenamine, 4-chloro-2-methyl-, in cotton residues of 1543
in maize fields, in Iowa 1394 seasonal abundance of 1394	in radish, toxicity of 5097 in <i>Rhizobium</i> , not toxic 5576	Benzenamine, N-[[4-[(3-
embidion rapidum	resistance to, in, <i>Popillia japonica</i> , in New	chlorophenyl)methoxy]phenyl]methyl]-
in USA 1394	Jersey 4157	2,6-difluoro-
in maize fields, in Iowa 1394	beneficum, Eumicrosoma	against
seasonal abundance of 1394	beneficus, Torymus	Oncopeltus fasciatus 1166
embidion tetracolum	bengalensis, Coccosterphus	Tenebrio molitor 1166
descriptions of 33	bengalensis, Diptilomiopus	Benzenamine, N,N-diethyl-, in DDT
in Czechoslovakia 33	bengalensis, Gynaikothrips Benin	formulations, as photosensitiser 5258
emisia, on cassava, in Colombia 1025 Emisia citricola	foodstuffs in, pest control in 6650	Benzenamine, 2,6-difluoro-N-[[4- (phenylmethoxy)phenyl]methylene]-
in Italy 6024	locust control in 5899	against
on Citrus, in Italy 6024	plant protection in 3238	Oncopeltus fasciatus 1166
parasitised by, Encarsia silvestrii, in Italy	bennetti, Cryphula	Tenebrio molitor 1166
6024	Benniseed (see Sesame)	Benzene, 1,1',1"-(1-chloro-1-ethenyl-2-
emisia tabaci	Benomyl (methyl [1-[(butylamino)carbonyl]-	ylidene)tris[4-methoxy- (see
bean golden mosaic virus in, transmission	1H-benzimidazol-2-yl]carbamate)	Chlorotrianisene)
of 4033	against, Tetranychus urticae, on	Benzene, 1,1'-(2-chloro-2- methylpropylidene)bis[4-ethoxy-,
control of cultural 1013	strawberry 1440 in Conotrachelus nenuphar, no effects	photodegradation of 3225
insecticides for 471, 1521, 1761, 2038,	from 959	Benzene, 1-chloro-4-[(2,4,5-
3819, 5703, 6567	in Entomophthora obscura, toxicity of	trichlorophenyl)sulfonyl]- (see
timing of 2038, 4033	4136	Tetradifon)
cotton leaf curl virus in, transmission of	in integrated control programmes 209	Benzene, 1,4-dichloro-
4341	in Nosema disstriae, toxicity of 617	against, Galleria mellonella 3717
food-plants of 2015	in orchards, effects on entomogenous	formulations of, controlled release 3717
in Brazil 2015	fungi of 1450	Benzene, 1,1'-(dichloroethenylidene)bis[4-
in Cuba 4033	with fenchlorphos, in apple, toxicity of	chloro- (see DDE) Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-
in Cyprus 1761	5603 with insecticides, against, pests and	chloro- (see DDD)
in Egypt 1013, 2500, 3819, 4358 in Honduras 3557	diseases of Chrysanthemum 4613	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-
in India 441, 471	with thiram, against, pests and diseases of	ethyl- (see Ethyl-DDD)
in Israel 6567	cauliflower 1498	Benzene, 1-[(diiodomethyl)sulfonyl]-4-
in Jordan 5703	bensoni, Diplocolenus	methyl-
in Pakistan 2038	Bentonite, in formulations of Beauveria	against, Aspergillus niger, in insect reari
in Sudan 4341	brongniartii 4135	media 3324
in Thailand 2539	Benzaldehyde, in almond hulls 6453	in Heliothis virescens, toxicity of 3324
in Togo 3029	Benzaldehyde, 4-hydroxy-3-methoxy-	Benzene, 1,2-dimethoxy-4-(2-propenyl)- (se
in Zimbabwe 3049	Eurygaster integriceps male sex- pheromone component 2872	Methyl eugenol) Benzene, dimethyl-
mung bean yellow mosaic virus in not transmitted 443	E. integriceps responses to 2872	as solvent for chlorpyrifos 3821
transmission of 441, 6528	Benzaldehyde, 3-phenoxy-	as solvent for lindane 3821
on cotton	in bean, decamethrin metabolite 3544	
distribution pattern of 6567	in cotton, decamethrin metabolite 3544	

Benzene, 1,1'-(2,2-dimethylcyclopropylidene-)bis[4-ethoxy-

in Lucilia cuprina, neurophysiological

effects of 659 insecticidal activity of analogues of 659 Benzene, 1-(1,1-dimethylethyl)-4-[1-(4ethoxyphenyl)-2-nitrobutyl]-, against, pests of stored products 2092

Benzene, ethenyl-

homopolymer

Alphitobius diaperinus in, damage caused by 5230 stored-product insects in, damage

caused by, specific identity of 4678

Benzene, 1-ethenyl-2,4-dimethyl-, Psila rosae responses to 5927

Benzene, 1-[(7-ethoxy-3,7-dimethyl-2-octenyl)oxy]-4-ethyl-, for regulating development and silk production in Bornhyr modi, 2844 Bombyx mori 2844

Benzene, hexachloro-, in meat, residues of 5981

Benzene, 1-(8-methoxy-4,8-dimethylnonyl)-4(1-methylethyl)-, against, Ephestia
cautella, in groundnuts 6665
Benzene, 4-methoxy-2-methyl-1-nitro-, in
forest soils, fenitrothion product 3226
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro- (see DDT)
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy- (see Methoxychlor)
Benzeneacetaldehyde
attractant for, Heterocera 1169
in Araujia sericifera 1169
Benzeneacetic acid Benzene, 1-(8-methoxy-4,8-dimethylnonyl)-4-

Benzeneacetic acid

cyclohexyl ester, attractant for, Trichodes ornatus 354

ornatus 354
Kadethrin photoproduct 2127
Benzeneacetic acid, 4-bromo-α-(4-bromophenyl)-α-hydroxy-, 1-methylethylester (see Bromopropylate)
Benzeneacetic acid, 4-chloro-α-(4-chlorophenyl)-α-hydroxy-, ethylester (see Chlorobenzilate)
Benzeneacetic acid, 4-chloro-α-(1-methylethyl)-, cyano(3-phenoxyphenyl)methylester (see Fenvalerate)
Benzeneacetic acid, 4-(difluoromethoxy)-α-

Fenvalerate)

Benzeneacetic acid, 4-(difluoromethoxy)-\alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester, (S)-, against, Heliothis spp., on cotton 3552

Benzeneacetic acid, \alpha-[(dimethoxyphosphinothioyl)thio]-, ethyl ester (see Phenthoate)

Benzeneacetonitrille \alpha(B-p.)

ester (see Phenthoate)

Benzeneacetonitrile, α-(β-Dglucopyranosyloxy)-, Yponomeuta
feeding responses to 4775

Benzenebutanoic acid, α,2-diamino-γ-oxo-,
in Pieris brassicae, excretion of
tryptophan as 1783

1,3-Benzenedicarbonitrile, 2,4,5,6tetrachloro- (see Chlorothalonil)

1,2-Benzenedicarboxylic acid
synergist for

synergist for chlorpyrifos 226 fenvalerate 226 malathion 226 mexacarbate 226 phosfolan 226

1,2-Benzenediol, in Manduca sexta diet, unable to replace ascorbic acid 2191

1,2-Benzenediol, 4-(2-aminoethyl)- (see

1,2-Benzenediol, 4-(2-aminoetnyl)- (see Dopamine)
1,2-Benzenediol, 4-(2-amino-1-hydroxyethyl)-, (R)- (see Levarterenol)
1,4-Benzenediol, Aphis fabae feeding responses to 2735
1,4-Benzenedione, in Manduca sexta diet, unable to replace ascorbic acid 2191
Benzenemethanol, Kadethrin photoproduct 2127

2127 Benzenemethanol, α-(aminomethyl)-4-hydroxy- (see Octopamine) Benzenemethanol, 4-chloro-α-(4-

chlorophenyl)-a-cyclopropyl-

Eotetranychus pruni, on grapevine 1964

Tetranychus urticae 1039, 1041 resistance to, in, Tetranychus urticae, and cross-resistance 1040 Benzenemethanol, 4-chloro-α-(4chlorophenyl)-a-cyclopropyl- contd. synergists for, piperonyl butoxide as 1041

Benzenemethanol, 4-chloro-α-(4chlorophenyl)-a-methyl- (see Chlorfenethol) Benzenemethanol, 4-chloro-a-(4-

chlorophenyl)-a-(trichloromethyl)- (see Dicofol)

Benzenemethanol, α-cyano-3-phenoxy-in bean, decamethrin metabolite 3544 in cotton, decamethrin metabolite 3544 Benzenemethanol, 3-phenoxy-

in bean, decamethrin metabolite 3544 in cotton, decamethrin metabolite 3544

Benzenepropanoic acid, 3,4-dihydroxy-,
Aphis fabae feeding responses to 2735
Benzenesulfonamide, 4-amino-, in Dysdercus
cingulatus, effects of 3190

Benzenesulfonic acid, 4-chloro-, 4-

chlorophenyl ester (see Chlorfenson) 4H-1,3,2-Benzodioxaphosphorin, 2-methoxy-, 2-sulfide, in Spodoptera litura, post-treatment temperature not affecting susceptibility to 5259

1,3-Benzodioxole-5-carboxylic acid, 2-(2butoxyethoxy)ethyl ester, synergist for, aminocarb 4156

1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-(see Piperonyl butoxide)
1,3-Benzodioxole, 5-[[5-(3,3-dimethyloxiranyl)-3-methyl-2-

pentenyl]oxy]-

in Microctonus aethiopoides, effects of 6241

in Microctonus colesi, effects of 6241 in Microctonus colesi, effects of 624
1,3-Benzodioxole, 5-ethoxy-6-[1-(4-methoxyphenyl)ethyl]-, sterilant for, Musca domestica 2126
1,3-Benzodioxole, 5-[[5-(3-ethyl-3-methyloxiranyl)-3-methyl-2-pentenyl]oxy]with methoprene, against, Ceratitis capitata 2148
(E)-

in Gryllodes sigillatus, effects on reproduction of 683 in Samia cynthia, increasing silk production 4366

synergist for, pyrethrins 2638 with pyrethrins, against, *Tribolium* castaneum 2638 1,3-Benzodioxole, 5-[(4-

1,3-Benzodioxole, 5-[(4-methoxyphenyl)methyl]-6-propoxy-, sterilant for, Musca domestica 2126
1,3-Benzodioxole, 5-(1-propenyl)-, synergist for, aminocarb 4156
1,3-Benzodioxole, 5-(2-propenyl)-, synergist for, aminocarb 4156
1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methylcarbamate (see Bendiocarb)
3,7-Benzofurandiol, 2,3-dihydro-2,2-dimethyl-

dimethylin Musca domestica, effects of atrazine on conversion of carbofuran to 3884

7-(methylcarbamate) in Musca domestica, effects of atrazine on conversion of carbofuran to 3884

in rice grain, carbofuran metabolite 3904

7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-in *Musca domestica*, effects of atrazine on conversion of carbofuran to 3884 methylcarbamate (see Carbofuran)

Benzoic acid Kadethrin photoproduct 2127 sodium salt

sodium salt
diet component for
Ceratitis capitata 1318
Dacus dorsalis 1851
Benzoic acid, 4-amino-, as radioprotective
for Neoaplectana carpocapsae 3695
Benzoic acid, 2,6-difluoroin cotton, diflubenzuron metabolite 3545
in soil, diflubenzuron product 3545
Benzoic acid, 2-[ethoxy[(1methylethyl)amino]phosphinothioyl]oxy]-,
1-methylethyl ester (see Isofenphos)

Benzoic acid, 4-hydroxymethyl ester diet component for

Dendroctonus frontalis 2283 Spodoptera littoralis 5717
Benzoic acid, 3-(4-hydroxyphenoxy)-, in

cotton, decamethrin metabolite 3544 Benzoic acid, 3-phenoxy-

in bean, decamethrin metabolite 3544 in cotton, decamethrin metabolite 3544

2H-1-Benzopyran-3,4-diol, 3,4-dihydro-6,7-dimethoxy-2,2-dimethyl-, in insects, metabolite of precocene II 1716 2H-1-Benzopyran-2-one

in forage legumes, not deterring feeding

by Spodoptera eridania 2923

Yponomeuta feeding responses to 4775

2H-1-Benzopyran-2-one, 7-(β-D-glucopyranosyloxy)-6-methoxy-, in Adina racemosa wood, role in termite resistance of 1356

2H-1-Benzopyran-2-one, 7-hydroxy-6methoxy-

in Adina racemosa wood, role in termite resistance of 1356

resistance of 1350
in Diospyros virginiana wood 2632
in Reticulitermes flavipes, not toxic 2632
4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-(4-hydroxyphenyl)-, Aphis fabae feeding responses to 2735
4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-methyl-, in Adina racemosa wood, role in termite resistance of 1366

methyl-, in Adina racemosa wood, role in termite resistance of 1356
4H-1-Benzopyran-4-one, 2-(3,4-dihydroxy-henyl)-5,7-dihydroxy-, Aphis fabae feeding responses to 2735
4H-1-Benzopyran-4-one, 2-(3,4-dihydroxy-phenyl)-3,5,7-trihydroxy-, Aphis fabae feeding responses to 2735
2H-1-Benzopyran, 5,7-dimethoxy-2,2-dimethyl-, in Locusta migratoria, JH inhibition by 6287
2H-1-Benzopyran, 6,7-dimethoxy-2,2-

inhibition by 6287

2H-1-Benzopyran, 6,7-dimethoxy-2,2-dimethylin Apis mellifera, not affecting queen induction 1165
in Dendroctonus rufipennis, inhibiting degeneration of flight muscles 6603 in Dysdercus similis, effects on reproduction of 3234 in Hippodamia convergens, inhibiting flight activity 6081 in Locusta migratoria effects of 1716 effects on corpora allata of 1872 effects on corpora allata of 1872 JH inhibition by 6287

in Nasonia vitripennis, not inducing larval diapause 3277

in Oncopeltus fasciatus effects of 1716, 2714 effects of 1716, 2714
effects on corpora allata of 1231, 5990
inactivation of corpora allata by 762
inhibiting flight activity 4222
not affecting circadian rhythms 6730
in Schistocerca gregaria, effects on
development of 4960
2H-1-Benzopyran, 7-methoxy-2,2-dimethylin Locusta migratoria
conversion to active form of 5343

conversion to active form of 5343 effects of 1716

effects on nymphal development of 819

JH inhibition by 6287 in Oncopeltus fasciatus effects of 1716

inhibiting flight activity 4222

mmbiting night activity 4222
in Schistocerca gregaria, effects of 5272
berbereti, Tiphia
Berberis, Sphecidae on, in Uzbekistan 333'
bergii, Neomaskellia
berlesei, Caloglyphus (Sancassania)
berlesei, Sancassania (see Caloglyphus
berlesei)
Bermuda

Bermuda

dwellings in, insect pests in 3837
Stomorhina selgae in 10
berochensis, Aculops

Berry crops, arthropod pests of, in Finland 4476

Berrya ammonilla, insecticidal activity of extracts of 3716

Berseem (see Trifolium alexandrinum)

bject Index
erytinus minor
dispersal of 2574
in Canada 2574
in USA 2574
essa harveyi in USA 1586
parasitising, Pristiphora erichsonii, in
Minnesota 1586
eta, Tetanops myopaeformis on,
development of 2491
eta virus 2 (see Beet mosaic virus) eta virus 4 (see Beet yellows virus)
eta vulgaris (see Beet; Beetroot; Mange
eta vulgaris var. altissima
amino acids in 1824
Aphis fabae on 1824
eta vulgaris var. saccharifera (see Suga beet)
tae, Pegomya (see P. hyoscyami)
tae, Pemphigus
etaine (see Methanaminium, 1-carboxy-
N,N,N-trimethyl-, hydroxide, inner sa
etanal (see Phenmedipham)
thylidae, parasitising, Elasmopalpus lignosellus, in Cuba 3852
ttonianus, Trinervitermes
etula
Acronicta spp. on, in England 4100
Betulaphis longicornis on, in India 52 Byctiscus betulae on, in France 2941
Calaphis similis on, in North Korea
5402
Cecidomyiidae on, in Netherlands 51
Coleophora spp. on, in USSR 6606 Ectoedemia argentipedella on
in Netherlands 2067
in West Germany 2746
Elasmucha grisea on, in West German
2058 Eutrichosiphum betulae on, in Sikkim
1089
Fenusa pusilla on, in Canada 4627 Gelechiidae on, in West Germany 15
1576 Gelechidae on, in West Germany
insect pests of
food competition in 4099 in circumpolar zone 5150 Lepidoptera on, in New Hampshire 4
in circumpolar zone 5150
Leptura aethiops on, in East Germany
4639
Neobetulaphis chaetosiphon on, in Ind
5210
Phyllonorycter spp. on, in England 4
Phyllonorycter spp. on, in England 4 4623
4623 Symydobius oblongus on, in England
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidea on, in USSR 6605 Tortricidae on, in West Germany 157 1576
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 etula costata, Ectoedemia argentipedella
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 telula costata, Ectoedemia argentipedella on, in Netherlands 2067
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedella on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 tula costata, Ectoedemia argentipedelle on, in Netherlands 2067 tula lanata, Birsteinius krivolutskyi on USSR 7 tetula papyrifera
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 Coleophora serratella on, assessing
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 etula costata, Ectoedemia argentipedella on, in Netherlands 2067 etula lanata, Birsteinius krivolutskyi on USSR 7 etula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 clula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 stula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinoidea on, in USSR 6605 Tortricidae on, in West Germany 157 1576 tula costata, Ectoedemia argentipedella on, in Netherlands 2067 tula lanata, Birsteinius krivolutskyi on USSR 7 tula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 stula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 Setula costata, Ectoedemia argentipedella on, in Netherlands 2067 Setula lanata, Birsteinius krivolutskyi on USSR 7 Setula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 Setula pendula aphid-parasite communities on 562 Ceratocansus piccatus on 2573
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinoidea on, in USSR 6605 Tortricidae on, in West Germany 157 1576 tula costata, Ectoedemia argentipedelle on, in Netherlands 2067 retula lanata, Birsteinius krivolutskyi on USSR 7 retula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 retula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedella on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 stula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinoidea on, in USSR 6605 Tortricidae on, in West Germany 157 1576 tula costata, Ectoedemia argentipedelle on, in Netherlands 2067 tula lanata, Birsteinius krivolutskyi on USSR 7 tula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 tula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 tula populifolia
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in WSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 clula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562 Ceratocapsus piccatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 stula populifolia Lymantria dispar on
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinoidea on, in USSR 6605 Tortricidae on, in West Germany 157 1576 tula costata, Ectoedemia argentipedelle on, in Netherlands 2067 tula lanata, Birsteinius krivolutskyi on USSR 7 tula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 tula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 tula populifolia
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedella on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 stula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 stula populifolia Lymantria dispar on development of 5755 effects of defoliation on 6225 feeding by 4632
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 clula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula anlid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 stula populifolia Lymantria dispar on development of 5755 effects of defoliation on 6225 feeding by 4632 Psallus betuleti on
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedella on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 stula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 stula populifolia Lymantria dispar on development of 5755 effects of defoliation on 6225 feeding by 4632 Psallus betuleti on in Alaska 2069
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 clula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 stula populifolia Lymantria dispar on development of 5755 effects of defoliation on 6225 feeding by 4632 Psallus betuleti on in Alaska 2069 in Pennsylvania 2069 estula purpusii, Ectoedemia argentipedele
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedelli on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 clula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 stula populifolia Lymantria dispar on development of 5755 effects of defoliation on 6225 feeding by 4632 Psallus betuleti on in Alaska 2069 in Pennsylvania 2069 estula purpusii, Ectoedemia argentipedele
4623 Symydobius oblongus on, in England 119 Tenthredinidae on, in Europe 5746 Tenthredinidae on, in USSR 6605 Tortricidae on, in West Germany 157 1576 stula costata, Ectoedemia argentipedella on, in Netherlands 2067 stula lanata, Birsteinius krivolutskyi on USSR 7 stula papyrifera Coleophora serratella on, assessing infestations of 3065 Nymphalis antiopa on, in Wisconsin 4651 Rheumaptera hastata on, development 544 stula pendula aphid-parasite communities on 562 Ceratocapsus piceatus on 2573 Ectoedemia argentipedella on, in Netherlands 2067 Phyllobius pyri on 1764 stula populifolia Lymantria dispar on development of 5755 effects of defoliation on 6225 feeding by 4632 Psallus betuleti on in Alaska 2069 in Pennsylvania 2069

etulae, Eutrichosiphum etulae, Phyllobius (see P. betulinus)

10

90

75,

932

in

of

secretions 4236

```
Betulaphis longicornis
sp. nov., description of 5210
    in India 5210
    on Betula, in India 5210
betulella, Coleophora
betuleti, Psallus
betulicola, Caloptilia (Gracillaria)
 betulicola, Gracillaria (see Caloptilia
      betulicola)
 betulicola, Plemeliella
 betulinus, Phyllobius
Bhalia (see Moghania macrophylla)
BHC (see HCH)
γ-BHC (see Lindane)
 Bhel oil, repellent for, Blepharipa zebina
      2846
 Bhindi (see Okra)
 Bi 58 (see Dimethoate)
 bibens, Amblyseius
 Bibio, female terminalia in 5300
 Bibionidae
    female terminalia in 5300
     preyed on by, Araneae, in Poland 2819
 bibionipennis, Synanthedon
 Bibliographies
    Agrotis gladiaria 3826
    A. ipsilon 3826
A. venerabilis 3826
    Anochetus 2659
     Apamea devastatrix 3826
     Auchenorrhyncha in Palaearctic region
          5401
    bee enemies and poisoning in tropics
         4978
    Carabidae in Quebec 6733 cassava 3027
    Dendroctonus pseudotsugae 525
    Euxoa messoria 383
Feltia ducens 3826
    F. subgothica complex
    gas chromatography of plant protection
chemicals 2129
175, 1751, 1752, 3239
insecticides of vegetable origin 5973,
5974, 5975
    IRAT publications in 1977 1170
Italian insect fauna 2292
keys to Cicindelidae in Europe 2828
Lacinipolia renigera 3826
Lymantria dispar population dynamics
          540
    Nephelodes minians 3826
    organotin antifeedants 3724
    Orius insidiosus 260
    O. tristicolor 260
     Peridroma saucia 3826
    Phaseolus vulgaris 1507
plant protection 6734, 6735
Psophocarpus tetragonolobus 1006
Rhaphidophoridae in New Zealand 4718
Stenopelmatidae in New Zealand 4718
     Tarsonemida 3244
     Voandzeia subterranea 1007
bicarbonate (see Carbonate, hydrogen)
bicarinata, Pheidole
bicarinatum, Tetramorium
bicincta, Belvosia
biciolor, Cataglyphis
bicolor, Corticeus
 bicolor, Dendrocerus
bicolor, Gallerucida (see Sphenoraia bicolor)
bicolor, Gallerucida (see Sphenoraia obicolor, Metriona bicolor, Sphenoraia (Gallerucida) bicolor, Taphrorychus biconvexus, Iridomyrmex bicrucis, Neasoryphus
Bicyclo[2,2,1]heptan-2-amine, N,2,3,3-tetramethyl- (see Mecamylamine)
Bicyclo[2,2,1]heptane, 2,2-dimethyl-3-methylene-
    Dysdercus fasciatus not responding to 1677
       methylene
Oxycarenus hyalinipennis feeding responses to 1677
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-in Dendroctonus pseudotsugae 3606 in Mentha piperita 4785 in Niesthrea louisianica exocrine
```

905 Bicyclo[3.1.1]heptane, 6,6-dimethyl-2methylene- contd. in Peridroma saucia diet, effects on enzyme activity of 4785 Bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl-, (1S-exo)-, in Ceratitis capitata males Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethylin almond hulls 6453 acetate, endo-, Psila rosae responses to 5927 Bicyclo[2.2.1]hept-2-ene, 5-(bromomethyl)-1,2,3,4,7,7-hexachloro- (see Bromocyclen) Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-Anthonomus grandis responses to 2203 Dysdercus fasciatus not responding to 1677 in Dendroctonus terebrans, metabolism of 724 in Mentha piperita 4785 in Niesthrea louisianica exocrine secretions 4236 in Papilio protenor larval osmeterial secretion 4234 in Peridroma saucia diet, effects on enzyme activity of 4785 Oxycarenus hyalinipennis not responding oxycarenus nyaninpenna-to 1677
with 1,5-dimethyl-6,8dioxabicyclo[3.2.1]octane, attractant
for, Dendroctonus frontalis 2578
with ethanol, and 3,3,7-trimethyl-2,9dioxatricyclo[3.3.1.0⁶7]nonane,
attractant for Xyloterus lineatus attractant for, Xyloterus lineatus 4621, 4629 4621, 4629 with ethanol, and $(1\alpha,2\alpha,5\alpha)$ -4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-ol, attractant for, *Dendroctonus ponderosae* 5202, 6590 with 2-propanone, and $(1\alpha,2\alpha,5\alpha)$ -4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-ol, attractant for *Dendroctonus* attractant for, Dendroctonus ponderosae 6590 with (1α,2α,5α)-4,6,6with (1a,2a,3a)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-ol, attractant for, Dendroctonus ponderosae 6590 chlorinated, against, Leptinotarsa decemlineata, on potato 3532 Bicyclo[3.1.1]hept-3-en-2-ol, 4,6,6-trimethyl-(1a,2a,5a)in Dendroctonus brevicomis 5327 in Dendroctonus brevicoms 5527 with ethanol, and 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene, attractant for, Dendroctonus ponderosae 5202, 6590 with 2-propanone, and 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene, attractant for Dendroctonus attractant for, Dendroctonus ponderosae 6590 with 2,6,6-trimethylbicyclo[3.1.1]hept-2cine, attractant for, Dendroctonus ponderosae 6590 (1α,2β,5α)-, with 2-methyl-3-buten-2-ol, and 2-methyl-6-methylene-2,7-octadien-4-ol, attractant for, Ips typographus 6589

Bicyclo[3,1,1]hept-3-en-2-one, 4,6,6-trimethylene, attractant for, Dendroctonus aggregation disrupter for, Ips paraconfusus 5327 in Dendroctonus brevicomis 5327 with 7-ethyl-5-methyl-6,8-dioxabicyclo[3,2,1]octane, aggregation disrupter for, Dendroctonus frontalis 539, 3590 Bi-2,4-cyclopentadien-1-yl, 1,1',2,2',3,3',4,4',5,5'-decachloro- (see Dienochlor) Bicyclo[7,2.0]undec-4-ene, 4,11,11-trimethyl-8-methylene-Anthonomus grandis responses to 2203 attractant for, Chrysopa carnea 5273 in Papilio protenor larval osmeterial secretion 4234 bidens, Pentodon bidentata, Odontopera bidentatus, Silvanus bifasciata, Anabrolepis bifasciata, Comperiella bifasciatum, Rhagium bifasciatus, Alphitophagus

```
bifasciatus, Anastatus
bifasciatus, Callirhopalus
bifasciatus, Onthophagus
  bifida, Edessa
  bifidus, Stethorus
  biformis, Baliothrips
biformis, Trinervitermes
  bifurcata, Balocha
bigella, Euzophera
  biguttatus, Homotropus (see Syrphoctonus
            biguttatus)
biguttatus)
biguttatus, Syrphoctonus (Homotropus)
biguttula, Amrasca
biguttula, Sundapteryx
biguttula, Temelucha
biguttulus, Chorthippus
Bilberry (Vaccinium myrtillus)
Coleophora vacciniella on, mines of 3985
bilineata, Aleochara
bilineata, Uroplata
bilineatus, Agrilus
bilineatus, Plagithmysus
bilitura, Euxoa
Billaea irrorata
  Billaea irrorata
in UK 5208
          parasitising, Saperda populnea, in England
                    5208
  Biloba subsecivella (see Stomopteryx
 subsectivella)
bimaculatus, Amphicerus (Bostrichus)
bimaculatus, Bostrichus (see Amphicerus
bimaculatus)
 bimaculatus, Dysdercus
bimaculatus, Gryllus
bimaculatus, Hister (see Peranus
bimaculatus)
 bimaculatus, Peranus (Hister)
Binapacryl (2-(1-methylpropyl)-4,6-
dinitrophenyl 3-methyl-2-butenoate)
against, Tetranychus urticae, on cotton
                      1545
          in Entomophthora obscura, toxicity of
                    4136
 [2,2'-binaphthalene]-8,8'-dicarboxaldehyde,
1,1',6,6',7,7'-hexahydroxy-3,3'-dimethyl-
5,5'-bis(1-methylethyl)-
         diet component for, Anthonomus grandis
                   1847
          in cotton
in cotton
effects on Earias vittella of 5716
role in resistance to Spodoptera
littoralis of 485
role in resistance to insect pests of
2513, 2514, 2525
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-
dihydroxy-2,3'-dimethyl-
in Diospyros virginiana wood 2632
in Reticulitermes flavipes, toxicity of
2632
 Bindweed, field (see Convolvulus arvensis)
Binodoxys acalephae, in Mongolia 3348
binotalis, Crocidolomia
binotatus, Anisodactylus
Bio-Film, in diazinon formulations, effects on insecticidal activity of 6707

S-Bioallethrin (see Allethrin, [1R-[1α(S*),3β]]-)

bioculatus, Perillus

Bioethanomethrin ([5-(phenylmethyl)-3-furanyl]methyl (1R-trans)-3-(cyclopentylidenemethyl)-2,2-dimethylcyclopropanecarboxylate) against, Orgyia pseudotsugata 2071

Biological control of arthropods (see also Sterile-insect release and individual pathogens)

Acyrthosiphon pisum
on lucerne 3343
on Vicia 3343
Adelges piceae, on Abies 6636
Agromyza frontella, on lucerne 2928
                Agromyza frontella, on lucerne 2928,
                           4902
                  Agrotis segetum 5249
               Agrotis segetum 5249
Alabama spp., on cotton 5125
Aleurocanthus woglumi 4564
on Citrus 1652, 2979, 3488
Aleurothrixus floccosus, on Citrus 1652, 3493, 3494, 3495, 3497
Anarsia lineatella, on peach 5615
Anthonomus grandis, on cotton 4602
Anticarsia gemmatalis
on groundnut 5665
on soyabean 5665
```

```
Biological control contd.
    of arthropods contd.

Aonidiella aurantii, on Citrus 1761,
               2974
         Aspidiotus nerii, on olive 4570
         Axiagastus cambelli, on coconut 4179
         Ceratitis capitata 1670
         Chilo auricilius, on rice 4515
         Chromaphis juglandicola, on walnut
               3991
         Chrysodeixis chalcites 4823
         Chrysomphalus aonidum, on Citrus
               2974
         Coccus hesperidum, on Citrus 2453
Coelaenomenodera elaeidis, on oil palm
               4544
         Coleophora serratella, on Alnus 4630
         Corcyra cephalonica 1111
         Cydia molesta, on peach 3486, 5615
             pomonella, on apple 5069
         Dacus demmerezi, on cucurbits 694
         D. oleae, on olive 5639, 6490
        D. titaes, on onve 3659, 6490
Dialeurodes citri
on Citrus 979, 3490, 3491, 5632
on Ligustrum 979
on Viburnum 979
         Diaphorina citri, on Citrus 694, 1467, 5077
        Diaprepes abbreviatus, on Citrus 6484
Diatraea spp., on sugar-cane 1916
D. saccharalis
on maize 1914
on sorghum 1914
on sugar-cane 289, 861, 1914, 5517
Dynastinae 5439
Entrypotrachelus spp. on tea 4121
         Entypotrachelus spp., on tea 4181
Epilachna varivestis, on soyabean 6192
        Eurygaster integriceps
on grain crops 2120
on wheat 3364
forest pests 1865
         Gonipterus scutellatus, on Eucalyptus 6587, 6588
         Heliothis spp.
            on Cicer arietinum 1671
on cotton 1045, 1662, 5125, 5725
on soyabean 1045
         H. armigera
on cotton 5714
on okra 1493
        on okra 1493
H. zea, on tomato 5894
Hemiberlesia lataniae, on olive 4570
Hylastes ater, on Pinus 5778
Hylurgus ligniperda, on Pinus 5778
Hypera postica, on lucerne 355, 356,
1955, 4540, 6138
         Hyperomyzus lactucae, on currant 5947
        Insulaspis gloverii, on Citrus 2974
Lepidosaphes beckii, on Citrus 2974
Lymantria dispar 3825
Macrosiphum euphorbiae, on eggplant
               2032
         Mamestra brassicae
on cabbage 419, 1669, 5096
on sugar-beet 2620
         Matsucoccus matsumurae, on Pinus
               567
         Melanaspis glomerata, on sugar-cane 4498
         Metopolophium dirhodum, on wheat 5998
        5998
Mononychellus tanajoa 2653
Musca vetustissima 2344
Myzus persicae
on Capsicum 475, 6555
on eggplant 2032
Neodiprion sertifer, on Pinus 1592
Nephantis serinane on coconut 500
          Nephantis serinopa, on coconut 5052
         Nilaparvata lugens, on rice 340, 341, 342
        Noctuidae, on grain crops 6356
Ostrinia nubilalis 5249
on maize 2364, 2620, 5538, 6368
Otiorhynchus sulcatus, on strawberry
5947
       5947

Oulema melanopus 6364
on barley 6348
on oats 873, 6348

Pachnaeus opalus, on Citrus 6484

Panonychus ulmi, on apple 386, 963

Parlatoria oleae, on olive 406
```

```
Biological control contd.
      of arthropods contd.
             Pectinophora gossypiella, on cotton
2549, 3556
pests of Citrus 2161, 4007, 5949
              pests of coffee 500
              pests of cotton 488, 1050
            pests of cotton 488, 1050
pests of fruit trees 5950
pests of glasshouse crops 2654
pests of lucerne 5951
pests of oilseed crops 5952
pests of pastures 5951
pests of rice 693
pests of soyabean 1513
pests of sugar-cane 693, 1672, 1915, 6347
pests of tea 4084
              pests of tea 4084
              Phesis of vegetable crops 5948
Phthorimaea operculella 2653
on potato 4045
Pineus pini 2653
              Planococcus spp., on coffee 6582
P. citri, on Citrus 5636
              Prays oleae, on olive 2457, 6490
Pristiphora erichsonii, on Larix 1586
              Pseudococcus comstocki, on Citrus
5079
            5079
P. obscurus 258
Pterandrus rosa, on fruit crops 694
Quadraspidiotus perniciosus 2955
on mulberry 378
Rhopalosiphum padi, on wheat 5998
Saissetia oleae
on Citrus 2455
on Nerium oleander 2455
on olive 2455, 2457, 3506, 6490
Scirpophaga incertulas, on rice 4515
Sesamia inferens, on rice 4515
Sitobion avenae, on wheat 5998
Spodoptera spp., on Cicer arietinum
              Spodoptera spp., on Cicer arietinum
1671
              S. frugiperda, on maize 2303
             S. Irugiperda, on marze Z
Tetranychus spp. 2653
T. urticae 268
on apple 963, 6460
on Capsicum 193
on cucumber 193, 229
on currant 5947
             on currant 5947
on glasshouse crops 628, 5481, 592
on peach 6460
on rose 508, 5735
on strawberry 5947
on tomato 4050
on Trifolium 5921
Thaumetopoea processionea, on Quercus 1588
Therigaphis trifolii on lucerne 3242
               Therioaphis trifolii, on lucerne 3343, 6437
              Trialeurodes vaporariorum 1133, 6320
on cucumber 229
             on cucumber 229
on eggplant 193
on glasshouse crops 628, 5925
on ornamental plants 229, 5734
on strawberry 5585
on tomato 193, 194, 229, 1536, 3764, 3808, 4049, 5734
Trioza erytreae, on Citrus 1467
Unplexed ambrosia, on Ambrosia
              Uroleucon ambrosiae, on Ambrosia
                        3343
            3343
Aphidoletes aphidimyza for 5953
biotype discrimination in 4808
book 2751
by CIBC 3185, 6692
Carabidae for 3338
Coccinellidae for 4454, 4984, 5475
encouraging natural enemies for 5942
evaluating of 5939
fungi for 626
in Australia 5930, 5934, 5938
in Belgium 6691
in British Columbia 4178
              in British Columbia
                                                                            4178
            in Canada 2792, 5999
in Chile 4174
in Hawaii 4695
            in India 4693, 6001
in Israel 2164
            in Israel 2104
in Mexico 1646
in New Zealand 4143
in Nigeria 1685
in Solomon Islands 3698, 600
in South Africa 695
in South Pacific region 4696
in West Germany 2162
                                                                            3698, 6002
```

Bio

•		, ,
ological control contd.	Bioresmethrin contd.	Birsteinius krivolutskyi contd.
of arthropods contd. limitations of 5940	with fenitrothion	in USSR 7
models of 2747	against Rhyzopertha dominica, in stored	on Betula lanata, in USSR 7 Bisazir (see Phosphinothioic amide, P,P-
pathogens for 6304	grain 3655	bis(1-aziridinyl)-N-methyl-)
quarantine of agents for 5937	Sitophilus oryzae, in stored grain	Biscuits
safeguards in 5283	3655	insect fragments in, detecting of 3123
Trichogramma spp. for 2119, 2620	Tribolium castaneum, in stored grain	Plodia interpunctella in, in USSR 3128
of molluses	3655	Thylodrias contractus in, in Italy 5799
Achatina fulica 4696, 4983 book 4449	Biorhiza pallida in Poland 3593	bisphaerica, Atta bisselliella, Tineola
of plants	on Quercus petraea, in Poland 3593	Biston betularia
Alternanthera philoxeroides 5944	parasitised by, Hymenoptera, in Poland	in Finland 3756
Baccharis halimifolia 5498, 5945	3593	in UK 3756, 6119
blackberry 5945 Calystegia sepium 3353	Biosteres	melanism in 3756
Carduus spp. 1362, 5505	in Hungary 3311 parasitising, Ophiomyia phaseoli, in	morph frequency variation in, model 6119
C. acanthoides 275, 4483	Thailand 3522	Biston defoliaria (see Erannis defoliaria)
C. nutans 275, 853, 3872, 4479, 4483,	Biosteres longicaudatus	Biston hirtaria (see Lycia hirtaria)
5501 Contamos differen 6242	host food-plant development stage as	Biston hispidaria (see Apocheima
Centaurea diffusa 6342 C. maculosa 4479, 4483, 6342	affecting 5639 parasitising	hispidaria) Biston strataria
Chondrilla juncea 5946	Dacus demmerezi, and biological	biology of 1452
Cirsium spp. 5505	control using, in Réunion 694	control of 1452
C. arvense 4479, 4483	D. oleae, and biological control using,	descriptions of 1452
C. vulgare 4483	in Greece 5639	in Bulgaria 1452, 1454
Echium plantagineum 5945 Eichhornia crassipes 274, 2155, 4491,	1,1'-Biphenyl, Psila rosae responses to 5927 bipilis, Trichouropoda	on apple, in Bulgaria 1452, 1454 seasonal abundance of 1454
5944	[3,4'-Bipiperidine]-2,6-dione, 3-phenyl-1'-	bisulca, Glena
Emex australis 4482, 5946	(phenylmethyl)-, (S)- (see Dexetimide)	Bites and stings, in man, by Hemiptera
E. spinosa 5946	biplaga, Earias	3781
Eriocereus spp. 6337	biplagiata, Lemnia	Bithia jacentkovskyi, parasitising,
E. martinii 2857, 5498, 5945 E. tortuosus 2857	bipunctata, Adalia bipunctata, Cicadulina	Euzophera cinerosella 1905 Bitomus, in Hungary 3311
Euphorbia cyparissias 6339	bipunctata, Tetyra	Bitoxibacillin (see Bacillus thuringiensis var
E. esula 4479, 4483, 6339	bipunctatus, Cletus	thuringiensis)
Gastrophysa atrocyanea 851	bipunctatus, Echinocnemus	Bitterleaf (see Vernonia)
Heliotropium europaeum 5945	bipunctatus, Megastigmus	biverrucatus, Scymnus (see Nephus bipunctatus)
Hypericum perforatum 4479, 4483 Lantana camara 1907, 5498, 5945	bipunctatus, Nephus bipustulata, Phyllotreta	biviella, Manhatta (Moodna)
Mikania spp. 6002	bipustulatus, Chilocorus	biviella, Moodna (see Manhatta biviella)
Opuntia aurantiaca 4480	4,4'-Bipyridinium, 1,1'-dimethyl- (see	bivittatus, Dacus
parasitic weeds, review 1363	Paraquat)	bivittatus, Melanoplus
Parthenium hysterophorus 5945 Pistia stratiotes 2155	Birch (see Betula) Birch, grey (see Betula populifolia)	bizonarius, Syrphophilus Blaberus, body temperature in, measuring of
Rubus fruticosus 5508	Birch, paper (see Betula papyrifera)	2727
Salsola iberica 4489	Bird skins, pest control in, insecticides for	Blaberus giganteus, enzymes in 3228
Salvinia molesta 5944	2158	Blackberry
Senecio jacobaea 2792, 3355, 4483, 5945	Pacillus thuringiansis in not nothogonia	Acalitus essigi on, in England 4547
Silybum spp. 5505	Bacillus thuringiensis in, not pathogenic 5846	Aulacaspis rosae on, in New Zealand 160
Solanum elaeagnifolium 5946	butonate in, not toxic 1702	Byturus tomentosus on, damage caused b
Striga spp. 271	carbofuran in, toxicity of 4162	5055
Tribulus terrestris 855, 1910	in forests	Cetonia aurata on, in Italy 4296
Ulex europaeus 5890 Xanthium strumarium 5498	effects of DDT on 3102 effects of insecticides on 1582, 3179	control of, biological 5508, 5945 Olethreutes concinnana on, in North
biotype discrimination in 4808	in pine forests, not affected by nuclear	America 1187
by ČÎBC 3185, 6692	polyhedrosis virus 6617	O. furfuranum on, in North America
evaluating of 5939	Lymantria dispar nuclear polyhedrosis	1187
in Australia 5930, 5936, 5938 in British Columbia 4178	virus in, no effects from 2571, 4913 mirex in, residues of 643	Oligonychus mangiferus on, in Madhya Pradesh 4295
in Canada 5999	preying on	Blackbird, red-winged (see Agelaius
in Hawaii 4695	Achaea janata, in India 3033	phoeniceus)
in India 4693, 6001	Apis spp. 4978	blackburni, Chelonus
in Nigeria 1685	Atta spp. 5179	Blackthorn (see Prunus spinosa)
in Queensland 5933 in South Africa 695	Bucculatrix pyrivorella, in Japan 3482 Cerambyx cerdo, in Poland 3104	Bladder flower (see Araujia sericifera) Blaesoxipha cochlearis, in China 6130
in South Pacific region 4696	Choristoneura fumiferana, model 6140	Blaesoxipha filipjevi, in China 6129
limitations of 5940	Cicindelidae 2827	Blaesoxipha laticornis, in China 6129
principles and methodology of 4492	Cydia pomonella, in New Zealand	Blaesoxipha litoralis, in China 6130
quarantine of agents for 5937	2956 Dinorhynchus dybowskyi, in Hokkaido	Blaesoxipha rossica, in China 6130 blakemorei, Tarsonemus
review 5924, 5935 eview 5923	2569	blancardella, Lithocolletis (see
resmethrin ([5-(phenylmethyl)-3-	forest pests 2562	Phyllonorycter blancardella)
furanyl]methyl (1R-trans)-2,2-dimethyl-3-	and biological control using 1865	blancardella, Phyllonorycter (Lithocolletis)
(2-methyl-1-propenyl)cyclopropanecarbo-	in New Hampshire 5753	blanchardii, Tatochila
xylate) gainst	in North America 2558 Papilio xuthus, in Japan 6485	blanda, Systena blandus, Apoderus
Acarus siro, in cheese 3116	Surattha indentella, in Kansas 1943	Blaniulus
Musca domestica 654	Syringopais temperatella, in Turkey	control of, pesticides for 464
pests of stored grain 2603	1389	on sugar-beet, in Belgium 464
Phaedon cochleariae 654 Rhyzoperthe dominice in stored grain	Thyridopteryx ephemeraeformis, in Ohio 789	Blaniulus guttulatus, on sugar-beet, in Europe 1523
Rhyzopertha dominica, in stored grain 3635	protection from insecticides of 3178	blantoni, Forcipomyia
Tyrolichus casei, in cheese 3116	pyrethroids in, metabolism of 656	Blaps lethifera, in Irish Republic, in Viking
n glasshouses, effects on biological	Birds' nests	remains 3779
control of 5481	Heteroptera in, in Hungary 3314	Blarina brevicauda, Lymantria dispar
n Hippodamia variegata, toxicity of 2642	Tarsonemus spp. in, in New York 2762 biremis, Nesodiprion	nuclear polyhedrosis virus in, passage through gut of 1568
esistance to, in, Sitophilus granarius	Birlane (see Chlorfenvinphos)	Blastesthia turionella
5814	birmanensis, Altica (see A. cyanea)	in Netherlands 5772
ynergists for, piperonyl butoxide as	Birsteinius krivolutskyi sp. nov., description of 7	on <i>Pinus contorta</i> , in Netherlands 5772 <i>Blastodacna</i> , taxonomy of 5286
3116, 3635, 3655	SD. HOV., DESCRIPTION OF A	DISSIDUACIA, LANGIIUIIIV UI 3200

Blastodacna atra	Boarmia rhomboidaria (see Peribatodes	Bombyx mori contd.
in USSR 3339 parasitised by, <i>Bracon pumilionis</i> , in	rhomboidaria) Boarmia selenaria	eggs of carbohydrate metabolism and oxygen
Lithuania 3339	Aerobacter aerogenes in, pathogenicity of	supply in 729
Blastodacna putripennella (see B. atra)	6479	development in males of 5005
Blastodacninae, taxonomy of 5286	control of, biological 3489	origin of glycerol in 4264
Blastophaga, in Trinidad 2768	in Israel 3489	encapsulation of foreign bodies in 2697
Blastophaga psenes	on avocado, in Israel 3489 Proteus mirabilis in, pathogenicity of	enzymes in 2687, 4224, 4756, 4768 feeding in, effects of photoperiod on
control of, insecticides for 4000 in Turkey 4000	6479	1899
on fig, in Turkey 4000	boas, Oryctes	flacherie virus in, properties of 3153
Blastophagus minor (see Tomicus minor)	bochei, Pseudeucoila (see Ganaspis	hemocytes in, reactions to foreign cells of
Blastophagus piniperda (see Tomicus	subnuda)	747
piniperda)	bochei, Trybliographa (see Ganaspis	high-temperature tolerance in, inheritance of 266
Blatta orientalis control of, insecticides for 3705, 5262	subnuda) Bodenheimera rachelae, taxonomy of,	humoral immunity in 3157
insecticide susceptibility in, effects of	lectotype for 6012	Ina-flacherie virus in, characterisation of
temperature on 3705	Boehmeria nivea	6674
Blattaria	Amsacta moorei on, resistance to 1051	life history of 5493
control of, insecticides for 669 in Fennoscandia 139	Diacrisia obliqua on, resistance to 1051 boetica, Cosmolyce (see Lampides boeticus)	male production in 265, 3284 mating in 96
insecticides in, selectivity of 651	boeticus, Lampides (Cosmolyce)	mid-gut in
Blattella germanica	Boettcherisca peregrina, actograph for	developmental changes in 1204, 1205,
control of	3320 Rose desired Appli in apparation of 3425	1206
growth regulators for 1715 insecticides for 2628, 5262, 6707	Bogs, drained, Acari in, succession of 3425 Bolboceratini, Paradoxiphis spp. on, in	effects of moulting hormones on nucleic acid synthesis in 1207
cyclodiene insecticides in, activity of	Australia 5290	mosaicism in 4474
enantiomers of 2628	Bolivia	moulting hormones in, developmental
insecticides in, detecting repellency of	Diatraea spp. in, on sugar-cane 1383	changes in 2222 mutants of 1240
5262 Blattodea (see Blattaria)	Pectinophora gossypiella in, on cotton	neoplasm inhibitors from 5493
Blattoptera, in Soviet Central Asia 2755	4072 Bolstar (see Sulprofos)	nervous system in, peptides in 2700
Blepharidopterus angulatus	Bombax malabaricum, Phyllocoptes	neurosecretory system in 1232, 5303
coldhardiness in 384 in Canada 384	salmaliae on, in West Bengal 3726	Nosema bombycis in 5241 pathogenicity of 2109
in UK 5156	bombayensis, Luperomorpha	nuclear polyhedrosis virus in, not infective
preying on	Bombidae, volatile chemical signals in, complexity of 1732	1127, 5006
Eucallipterus tiliae in UK 5156	Bombus	nucleoli in 4261 nutrition of 2698
model 6591	body temperature in, measuring of 2727	ovarian development of, effects of insect
Typhlocyba pomaria, in Nova Scotia	labial glands in, secretion of 3744	growth regulators on 5008
384 Planhavina protongia	wing-beat frequency of, measuring of	ovaries in, trehalose absorption in 4768
Blepharipa pratensis competing with, Brachymeria intermedia	1846 Bombus terrestris	oviposition in 3870 phagocytosis in 5336
1344	in Poland 5048	pheromones in, recognition of 1725
in Poland 3592	in lucerne fields, effects of insecticides on	population density as affecting 4353,
in USA 2566 parasitising	5048 Bombyces, in Italy 1309	4354 potassium iodide in, promoting growth,
Lymantria dispar 1344, 2777	Bombycoidea	silk production and fecundity 263
in Pennsylvania 2566	food-plant growth form as affecting 4283	prostaglandins in 3276
in Poland 3592	in Finland 5411 on leaves, effects of leaf-water	prothoracicotropic hormone in
preyed on by, <i>Procyon lotor</i> , in Pennsylvania 2566	supplementation on 88	inactive in <i>Manduca sexta</i> 6078 properties of 664
rearing of, techniques for 2777	Bombykol (see 10,12-Hexadecadien-1-ol,	purifying of 664
Blepharipa scutellata	(10E, 12Z)-)	pupal development in, effects of insect
diflubenzuron in, toxicity of 4642 in France 4642	Bombyx mandarina in China 5473	growth regulators on 5008 radioprotectives from 5493
parasitising, Lymantria dispar, in France	in Japan 1168	rearing of
4642	on mulberry, in Japan 1168	diets for 808
Blepharipa zebina control of, repellents for 2846	parasitised by, Telenomus theophilae, in China 5473	techniques for 5493 reproductive system in, changes in 2673
in India 2846	sex pheromone of 1168	review 5432
parasitising, Antheraea mylitta 2846	Bombyx mori	scientific role of 5492
Blissinae, in Ghana 5362 Blissus, on Stenotaphrum secundatum,	amino acids in, absorption from mid-gut of 6067	sericin in, lectin receptor in 6335 sex pheromone of 1168
assessing infestations of 2412	as biological model 5494	in pupal hemolymph 49
Blissus leucopterus hirtus	as laboratory animal, book 2845	silk of
control of, timing of 926 in Canada 926, 5047	Bacillus thuringiensis bioassay using 3687	amino acids in 744 effects of growth regulators on 1901
in lawns, assessing infestations of 926	B. thuringiensis in	glycopeptides in 767
in turf, assessing infestations of 5047	activation of latent virus by 5246	silk production in
parasites of, sampling of 5047 predators of, sampling of 5047	effects on mid-gut of 3689 in Japan 3169	effects of photoperiod on 1900 effects of population density on 4354
Blissus leucopterus leucopterus	not pathogenic 3155	hormonal regulation of, review 6336
control of, insecticides for 6169	pathogenicity of 5246	hormones for regulating of 2844
in USA 6169 on sorghum, in Kansas 6169	Beauveria bassiana in, control of 1360 breeding of 4802	strain differences in 4352 spermatozoa in 4776
Blondelia, parasitising, Euproctis similis, in	carbon dioxide in, mechanism of	spermatozoa in 4776 strains of 2651
Poland 3592	anesthesia with 5254	urine in, nitrogenous compounds in 6068
Blondelia nigripes in Poland 3592	chorion in, oxygen permeability of 729, 4778	bonanseai, Ips
parasitising	cocoon characters in, inheritance of 266	bonariensis, Hyperodes (see Listronotus bonariensis)
Lymantria dispar, in Poland 3592	compound eyes in, photoadaptive	bonariensis, Listronotus (Hyperodes)
Orgyia antiqua, in Poland 3592	properties of 1229	boninensis, Chrysopa
Blondeliini, in Japan 2667, 4194 Blood-coagulation factors, in arthropods	densonucleosis virus in, replication of, effects of temperature on 3688	Bonnetia comta in USA 3379
6066	development in	parasitising, Agrotis ipsilon, in Indiana
Blowfly (see Calliphoridae)	effects of photoperiod on 1898	3379
Aleuroplatus vaccinii on, in Florida 2427	hormones for regulating of 2844 diapause in 2687, 4261, 4778	Book notices and reviews Ali, M.A.M., Ecological and physiological
Scaphytopius magdalensis on, in Florida	diseases of 5493, 5495	studies on the alfalfa ladybird [En]
1962	economic role of 5492	1431

ook notices and reviews contd. Ashburner, M.; Wright, T.R.F. (Editors),
The genetics and biology of
Drosophila. Vol. 2c [En] 2722

Association Française de Normalisation, The insects and mites of stored grain

[Fr] 1609 Barlow, N.D.; Dixon, A.F.G., Simulation of lime aphid population dynamics [En] 6591

Bergougnoux, F., Preservation, transformation and utilisation of

chestnuts and marrons [Fr] 3144
Bergougnoux, F.; Verlhac, A.; Breisch,
H.; Chapa, J., The sweet chestnut. Production and culture [Fr] 3461

Bland, R.G.; Jacques, H.E., How to know the insects (ed. 3) [En] 6005 Blum, M.S.; Blum, N.A. (Editors), Sexual

selection and reproductive competition in insects [En] 2748 Boethel, D.J.; Eikenbary, R.D. (Editors),

Pest management programs for deciduous tree fruits and nuts [En]

Bot, J.; Vermeulen, J.B.; Hollings, N., A guide to the use of pesticides and fungicides in the Republic of South

Africa (ed. 21) [En] 642 Bradley, J.D.; Tremewan, W.G.; Smith, A., British tortricoid moths Tortricidae: Olethreutinae [En] 3789

Brovdii, V.M., Fauna of the Ukraine. Vol. 19, no. 16. Leaf-eating beetles, Chrysomelinae [Uk] 2753

Chararas, C., Ecophysiology of insect

forest pests [Fr] 5798 Collingwood, C.A., The Formicidae of Fennoscandia and Denmark [En] 2801

Cox, G.W.; Atkins, M.D., Agricultural ecology. An analysis of world food production systems [En] 2751

Crosskey, R.W. et al. (Editors), Catalogue of the Diptera of the Afrotropical

region [En] 6003

D'Almeida, R.F., Catalogue of the
American Ithomiidae (Lepidoptera) [Pt] 4855

Davidson, R.H.; Lyon, W.F., Insect pests of farm, garden, and orchard (ed. 7) [En] 818

ory Dondale, C.D.; Redner, J.H., The insects and arachnids of Canada. Part 5. The crab spiders of Canada and Alaska. Araneae: Philodromidae and Thomisidae [En] 2816 Emmet, A.M. (Editor), A field guide to the smaller British Lepidoptera [En]

Ferguson, D.C., The moths of America north of Mexico. Fascicle 22.2 Noctuoidea, Lymantriidae [En] Foelix, R.F., Biology of spiders [De]

2810 Gertsch, W.J., American spiders (ed. 2)
[En] 2814

[En] 2814
Godan, D., Snail and slug pests and their control [De] 4449
Goldstein, J.; Goldstein, R.A. (Editors),
The least is best pesticide strategy. A guide to putting integrated pest management into action [En] 631
Grassé, P.P. (Editor), Treatise of zoology.
Anatomy, systematics, biology.
Volume X. Higher insects and Hemipteroidea. (First part) (second

Volume X. Higher insects and Hemipteroidea. (First part) (second printing) [Fr] 6265 Grigorov, S., Aphids and their control [Bg] 6266 Grüne, S., Brief illustrated key to European bark beetles [En, De] 5757

Book notices and reviews contd. Our eva, E.L., Fauna of the USSR.
Coleoptera. Vol. XII, part 4. Click-beetles (Elateridae). Subfamily Elaterinae, Tribes Megapenthini, Physorhinini, Ampedini, Elaterini and

Pomachiliini [Ru] 11 Häfliger, E. (Editor), Maize [En] 6365 Hassell, M.P., The dynamics of arthropod predator-prey systems [En] 2747
Heath, J.; Emmet, A.M. (Editors), The

moths and butterflies of Great Britain and Ireland. Volume 9. Sphingidae – Noctuidae Noctuinae and Hadeninae [En] 163

Hermann, H.R. (Editor), Social insects (vol. 1) [En] 5451 Hidaka, T. (Editor), Adaptation and speciation in the fall webworm [En] 1601

Hillis, W.E.; Brown, A.G. (Editors),
Eucalypts for wood production [En]
3070, 3613
Hodgson, F. (Editors), Who's who in
world agriculture [En] 2650
Hodkinson, I.D.; White, I.M., Homoptera
Psylloidea [En] 6029
Hosmani, M.M., Striga (a noxious root
parasitic weed) [En] 271
Kaston, B.J., How to know the spiders
(ed. 3) [En] 6007
Kaur, R.; Jonathan, J.K.,
Ichneumonologia orientalis Part VIII.

Ichneumonologia orientalis Part VIII. The tribe Phytodietini from India (Hymenoptera: Ichneumonidae) [En] 6015

Kay, D.E., Food legumes [En] 4030
Kenaga, E.E.; Morgan, R.W., Commercial
and experimental organic insecticides
(1978 revision) [En] 2128
Kerzhner, I.M. (Editor), The insects of
Mongolia. Part 6 [Ru] 3308
Klausnitzer, B.; Klausnitzer, H., Ladybird beetle (Coccinellidae) (ed. 2,
revd.) [De] 4454
Knipling, E.F., The basic principles of
insect population suppression and
management [En] 5920
Krombein, K.V.; Hurd, P.D., Jr.; Smith,
D.R., Catalog of Hymenoptera in
America north of Mexico. Volume 3.
indexes [En] 6123

indexes [En] 6123 Krombein, K.V.; Hurd, P.D., Jr.; Smith,

D.R.; Burks, B.D. Catalog of Hymenoptera in America north of Mexico

Volume 1. Symphyta and Apocrita (Parasitica) [En] 3309 Volume 2. Apocrita (Aculeata) [En]

3310

Lauffer, M.A.; Bang, F.B.; Maramorosch, K.; Smith, K.M. (Editors), Advances in virus research (vol. 25) [En] 4689

Leake, L.D.; Walker, R.J., Invertebrate neuropharmacology [En] 3274

Li, C.C. (et al.), 100 Agricultural insects with illustrations [Ch] 1780

Mabbett, T.H., A review of the economic insect nests of cotton in Thailand [En]

insect pests of cotton in Thailand [En] 2539

2539

Mamaev, B.M.; Krivosheina, N.P.;
Pototskaya, V.A., A key to larvae of predatory insects – entomophages of tree-trunk pests [Ru] 580

McDaniel, B., How to know the mites and ticks [En] 6006

Mead, A.R., Pulmonates. Volume 2B.
Economic malacology with particular reference to Achatina fulica [En] 4983

4983

4983
Merritt, R.W.; Cummins, K.W. (Editors),
An introduction to the aquatic insects
of North America [En] 162
Mielke, O.H.H.; Brown, K.S., Jr.,
Supplement to Catalogue of the
American Ithomiidae (Lepidoptera) of
R. Ferreira D'Almeida (Nymphalidae:
Ithomiinae) [Pt] 4856
Miller, T.A., Insect neurophysiological
techniques [En] 4870

techniques [En] 4870
Mittler, T.E.; Radovsky, F.J.; Resh, V.H.
(Editors), Annual Review of
Entomology (vol. 25) [En] 5429

Book notices and reviews contd.

Moore, I.; Legner, E.F., An illustrated guide to the genera of the Staphylinidae of America north of Mexico exclusive of the Aleocharinae (Coleoptera) [En] 2668 Morgan, W.M.; Ledieu, M.S.; Stell, G.,

Pest and disease control in glasshouse crops [En] 2622

Morris, R.F., Butterflies and moths of Newfoundland and Labrador. The

Macrolepidoptera [En] 4865 Morse, R.A. (Editor), Honey bee pests, predators, and diseases [En] 4441

Mulligan, G.A. (Editor), The biology of Canadian weeds. Contributions 1-32

[En] 3354
Nair, M.R.G.K., A monograph on croppests of Kerala and their control [En]

Nye, I.W.B. (Editor); Fletcher, D.S., The generic names of moths of the world

(vol. 3) [En] 5295
Ohler, J.G., Cashew [En] 5063
Oster, G.F.; Wilson, E.O., Caste and ecology in the social insects [En] 2293

2293
Page, B.G.; Thomson, W.T., The insecticide, herbicide, fungicide quick guide [En] 3191
Pankhurst, R.J., Biological identification [En] 1173
Peretailo, A.P., Handbook of plant protection [Ru] 3696
Perkow, W., Active ingredients of plant protection and pest control substances

protection and pest control substances. Supplement 3 [De] 2130 Poinar, G.O., Jr.; Thomas, G.M.,

Diagnostic manual for the identification of insect pathogens [En] 4139

4139
Pravdin, F.N., Ecological geography of the insects of Central Asia.
Orthopteroids [Ru] 2755
Quinlan, J., Hymenoptera Cynipoidea Eucoilidae [En] 4736
Roonwal, M.L., Termite life and termite control in Tropical South Asia [En]

4463
Rosen, D.; DeBach, P., Species of Aphytis
of the world (Hymenoptera:
Aphelinidae) [En] 2841
Schwerdtfeger, F., Animal ecology. A
text- and handbook in three parts.
Volume II: demecology. Structure and
dynamics of animal populations (ed. 2)
[De] 2262

dynamics of animal populations (cd. 2)
[De] 2262
Scopes, N.; Ledieu, M. (Editors), Pest and disease control handbook [En] 2621
Seymour, P.R. (Compiler), Invertebrates of economic importance in Britain.
Common and scientific names (ed. 3)

of economic importance in Britain.
Common and scientific names (ed. 3)
[En] 5447
Sill, W.H., Jr., The plant protection
discipline. Problems and possible
developmental strategies [En] 622
Slater, J.A.; Baranowski, R.M., How to
know the true bugs (HemipteraHeteroptera) [En] 6008
Sneep, J. (Editor); Hendriksen, A.J.T.
(Editor); Holbek, O. (Coeditor), Plant
breeding perspectives [En] 1134
Starý, P., Aphid parasites (Hymenoptera,
Aphididae) of the Central Asian area
[En] 1177
Tazima, Y. (Editor), The silkworm: an
important laboratory tool [En] 2845
Treherne, J.E.; Berridge, M.J.;
Wigglesworth, V.B. (Editors),
Advances in insect physiology (vol. 14)
[En] 2190
UNESCO, Tropical forest ecosystems [En]
1585

1585
Welch, S.M.; Croft, B.A., The design of biological monitoring systems for pest management [En] 3186
Whitfield, P.J., The biology of parasitism: an introduction to the study of associating organisms [En] 1301
Wittmer, W.; Büttiker, W. (Editors), Fauna of Saudi Arabia. Vol. I 1979
[En,De,Fr] 2266

Brachytrupes portentosus, control of, insecticides for 3896 Brachmia arotraea contd. Book notices and reviews contd. Woodroof, J.G., Coconuts: production, parasitised by processing, products (ed. 2) [En] 936 Woodruff, J.G., Tree nuts: production, Apanteles spp., in Orissa 3392 Brachyufens osborni Brachymeria spp., in Orissa 3392 Brachycaudus amygdalinus in USA 6484 processing, products (ed. 2) [En] 2942 parasitising, Pachnaeus opalus, in Florida in Libya 2368 on maize, in Libya 2368 6484 World Health Organization, Specifications for pesticides used in public health Bracon Brachycaudus helichrysi biology of 5611 control of 5611 parasitising [En] 3217 Heliothis armigera, and biological control using, in Tadzhikistan Worthing, C.R. (Editor), The pesticide manual. A world compendium (ed. 6) [En] 4152 biological 3058 Zagulyaev, A.K., Fauna of the USSR.
Insecta Lepidoptera. Vol. IV no. 6.
True moths (Tineidae). Sixth part.
Subfamily Meessiinae [Ru] 141
Zayanchkauskas, P.A.; et al.,
Entomoparasites of insect pests in orchards in Lithuania [Ru] 3466
Zhuzhikov, D.P., Termites of the USSR
[Ru] 1897 in Irish Republic 3436 in UK 3058, 5611 in grassland, in Irish Republic 3436 Plutella xylostella, in Gujarat 4023 Scirpophaga innotata, in Western Australia 6421 Bracon adoxophyesi in Japan 3056 parasitising, Adoxophyes spp., in Japan on Chrysanthemum, in England on Prunus, damage caused by 5611 plum pox virus in, transmission of 5611 3056 group of, on maize, in Libya 2368 Bracon brevicornis Brachycaudus persicae, on peach, varietal preferences of 6473

Brachycaudus prunicola, on peach, varietal preferences of 6473

Brachycaudus prunicola, on peach, varietal preferences of 6473 Bacillus thuringiensis in hosts as affecting 5860 parasitising, Sesamia cretica 5860 Bracon chinensis, in Ghana, introductions o 4497 Gastrallus pubens in, damage caused by 2087 Brachycera Bracon gelechiae in India 4023, 5677 in Finland 5403 Lepisma saccharina in, in Bermuda 3837 in grassland, succession of 3432 Boopedon auriventris control of, insecticides for 5980 in USA 5980 parasitising
Plutella xylostella, in Gujarat 4023 Brachycolus noxius (see Diuraphis noxia) in USA 5980

Boophilus microplus, control of 5256

Bordeaux mixture, with acaricides 1964

borealis, Campoplex

borealis, Cyclocephala

borealis, Pemphigus

borealis, Pseudencyrtus

boreata, Operophtera (see O. fagata)

borelii, Gortyna

boreon, Perkinsiella

borinquenensis, Puliciphora

Borneol (see Bicyclo[2.2.1]heptan-2-ol, 1,7,7
trimethyl-)

Borrelinavirus euproctis, in, Euproctis Stomopteryx subsecivella, in Maharashtra 5677 humidity as affecting 3293 parasitising
Brachmia arotraea, in Orissa seasonal abundance of Bracon greeni in India 1051 Cnaphalocrocis medinalis, in Orissa 3392 parasitising, Apion corchori, in West Bengal 1051 Bracon hebetor Dichocrocis punctiferalis, in Gujarat 2822 Stomopteryx subsecivella, in Maharashtra 5677 temperature as affecting 3293 flightless mutant of 2227 in Israel 1037 Brachymeria excarinata
in Philippines 904
parasitising, Cnaphalocrocis medinalis, in
Philippines 904
Brachymeria intermedia insecticides in, toxicity of 3814 parasitising, Heliothis armigera, in Israel Borrelinavirus euproctis, in, Euproctis similis, in West Germany 1104 bos, Coreus (see Enoplops cornutus)
Bos taurus (see Cattle)
bosei, Neotermes
Bostrichidae, in pine wood, in El Salvador 1037 Bracon mellitor in USA 1539, 6259 parasitising, Smicronyx fulvus, in North Dakota 1539, 6259 competing with, Blepharipa pratensis 1344 diflubenzuron in, inducing multiple progeny emergence 4910 Bracon pumilionis in USSR 3339 progeny emergence fecundity in 2812 parasitising, *Blastodacna atra*, in Lithuania 3339 Bostrichus bimaculatus (see Amphicerus host-killing by 5483 host population quality as affecting 5189 bimaculatus) Bostrichus capucinus control of, insecticides for 942 in Bulgaria 942 Braconidae humidity as affecting 3293 in USA 3100, 3293 in oak woodland, effects of insecticides on in Lithuania 3339, 5392, 5394, 5400 in cotton fields, effects of herbicides on on grapevine, damage caused by 942
Bostrichus varius (see Lichenophanes varia)
botanephaga, Sesamia nonagrioides
Botanic gardens, Araneae in, in West
Germany 2745 3100 in orchards, in Lithuania 3466 in vegetable fields, in South Carolina 2984 oosorption in 2711 parasitising Galleria mellonella 2711, 2812 Lymantria dispar 1344, 2812, 4910, 5189 movement detectors for 176 Bothriomyrmex myops in India 3416 preying on, Contarinia sorghicola, in Karnataka 3416 parasitising
Coleotechnites edulicola, in New
Mexico 576 in New Jersey 310 Trichoplusia ni 5483 rearing of, diets for 548 sex ratio in 2812 3100 Epiblema scudderiana, in Pennsylvania Bothynoderes punctiventris control of 5249 biological 5861 in Romania 5861 in USSR 5249 5483 2825 Microlepidoptera, in West Germany 1575 temperature as affecting 3293

Brachymeria jambolana
hyperparasitising, Orgyia postica, in
Bangladesh 6325
in Bangladesh 6325 Pandemis heparana, in British
Columbia 950
Phyllonorycter spp., in England 4623
Phytomyza horticola, in Honshu 427
Platypria coronata, in Ghana 362 on beet, in Ukraine *Bothynus subtropicus in USA 3445 parasitising, Carcelia spp., in Bangladesh Spodoptera litura, in Andhra Pradesh 6574 on Cynodon magennisii, in Florida 3445 6325 botrana, Lobesia Brachymeria lasus Botrytis, control of, fungicides for 5582 Botrytis cinerea, in, raspberry, in Scotland 940 diflubenzuron in, inducing multiple progeny emergence 4910 humidity as affecting 3293 in Japan 3293 Tenthredinidae, in Europe 5773 Xyletinus peltatus, in Mississippi preyed on by, Xylocoris flavipes 3 venom apparatus in 2672 3136 940
bottnicus, Pteromalus
boulardi, Cothonaspis
Bourletiella sulphurea
in Irish Republic 3437
in grassland, in Irish Republic 3437
bovelli, Aphytis (see A. hispanicus)
Boverin (see Beauveria bassiana)
Box elder (see Acer negundo)
Box, Victorian (see Pittosporum undulatum)
Boysenberry, Aulacaspis rosarum on, in
New Zealand 160
BPMC (see Phenol, 2-(1-methylpropyl)-,
methylcarbamate) 3632 in Japan 3293
temperature as affecting 3293
Brachymeria nephantidis 2822
Brachymeria ovata
fecundity in 4459
fertility in 4459
life-span in 4459
parasitising, Heliothis virescens 4459
Brachymeria podagrica
in Bangladesh 6325
parasitising, Sarcophaga misera, in
Bangladesh 6325
Brachymeria secundaria viruses in, in reproductive system 5:
Braconinae, venom apparatus in 2672
braconius, Colastes (Phanomeris)
braconius, Phanomeris (see Colastes
braconius) Bradycellus rupestris in Canada 957 in Canada 957
in apple orchards, in Ontario 957
Bradysia agrestis
sp. nov., description of 1557
biology of 1557
in Japan 1557
on cucumber, in Honshu 1557
on lily, in Honshu 1557
Bradysia ocellaris
control of, timing of 782
flight activity in 782
in Denmark 782 methylcarbamate)
Brachiaria decumbens, Aeneolamia varia on, Brachymeria secundaria in Yugoslavia 5792 damage caused by 6432 Brachmia arotraea
in India 3392
on Leersia hexandra, in Orissa 3392
on rice, in Orissa 3392 Apanteles spp., in Yugoslavia 5792 Meteorus versicolor, in Yugoslavia 5792 brachypterus, Pleolophus

Subject Index		91
Bradysia ocellaris contd.	Braunsia, parasitising, Maruca testulalis, in	Brazil contd.
on glasshouse crops, in Denmark 782	Nigeria 6514	Plusia spp. in contd.
traps for 782	Brazil	on soyabean 2014, 3007
Bran, bait component for, Agrotis ipsilon	Acanthoscelides obtectus in, in Phaseolus	Polyphagotarsonemus latus in, on cottor
876	seeds 5828	1544
Branch, arthropods on, sampling of 1848	Anastrus sempiternus in, on Terminalia	rice in, insect pests of 6410
brasiliensis, Hyalomyodes	3074	Rutela lineola in, in Eucalyptus wood
brasiliensis, Trichogramma	Anisoscelis foliacea in, on Passiflora 187	2066
Brassica	Anticarsia gemmatalis in	Schizaphis graminum in, on wheat 101
insect pests of, in Assam 4142	natural enemies of 5672	Schizotetranychus oryzae in, on rice
pest control on, integrated 3825	on soyabean 2014, 3007	4520
Brassica alba (see Mustard (Sinapis alba))	Aphis gossypii in, on wheat 5527	Sibine barbara in, on coffee 2044
Brassica botrytis (see Cauliflower and	Armitermes spp. in, natural enemies of	Sitophilus zeamais in, in maize grain
broccoli)	190	4121
Brassica campestris	A. neotenicus in, natural enemies of	Sitotroga cerealella in, in maize grain
Delia brassicae on, oviposition by 6151	3867	4121
Lipaphis erysimi on, varietal preferences	Atta spp. in on Gmelina 5770	Sogatodes orizicola in, on rice 3966
of 415	on Pinus 5770	soyabean in
Melanoplus bivittatus on, development of	A. cephalotes in 244	arthropod pests of 2017, 6519
2466	A. sexdens in 244	pest control on 6193
M. sanguinipes on, development of 2466	Bemisia tabaci in 2015	sugar-cane in
Brassica campestris subsp. rapifera (see	biological control in 3185	insect pests of 1915
Turnip)	Brassolis astyra in, on palm trees 2421	pest control on 1916
Brassica campestris var. napobrassica (see	Brevicoryne brassicae in, on kale 1496	Tetranychus evansi in, on tomato 5701
Swede)	cashew in, arthropod pests of 5063	T. urticae in, on cotton 1545, 1546
Brassica campestris var. oleifera (see Turnip	cassava in, arthropod pests of 1531, 2498	Toxoptera citricida in, natural enemies o
rape)	Castnia licus in, on sugar-cane 289	4004
Brassica campestris var. sarson, Brevicoryne	Chalcidoidea in 5410	Trachea anguliplaga in
brassicae on, in India 1534	Chrysomphalus aonidum in, on Citrus	natural enemies of 1908
Brassica caulorapa (see Kohlrabi) Brassica chinensis (see Cabbage, Chinese)	4003 Contarinia sorghicola in, on sorghum	on Rumex 1908 Xylocopa frontalis in 81
Brassica fimbriata (see Kale)	3976, 5569, 6426	Zabrotes subfasciatus in, in Phaseolus
Brassica gemmifera (see Brussels sprouts)	Culicoides spp. in 3052	seeds 5828
Brassica juncea	Diaspidiotus uvae in, on grapevine 1754	breadalbimensis, Dendrocerus
Delia brassicae on, oviposition by 6151	Diatraea saccharalis in	Brentidae
Lipaphis erysimi on, varietal preferences	natural enemies of 861	genitalia in 5306
of 415	on rice 5037	in Chandigarh 5404, 5405
Brassica napobrassica (see Swede)	on sorghum 5570, 6426	Brevennia rehi
Brassica napus var. esculenta (see Swede)	on sugar-cane 289, 5516	control of
Brassica napus var. napobrassica (see	Dichelops spp. in, on soyabean 1516	cultural 6398
Swede)	Dolichotetranychus floridanus in, on	insecticides for 6398
Brassica napus var. oleifera (see Rape)	pineapple 2983	distribution map for 3303
Brassica napus var. rapifera (see Swede) Brassica nigra	Eacles magnifica in, on coffee 3054 Edessa meditabunda in, on soyabean	in Bangladesh 5032, 6398 on rice
glucosinolates in 282	1516	damage caused by 6398
Phyllotreta armoraciae on, feeding by	Elasmopalpus lignosellus in, on rice 5566	in Bangladesh 5032
282	Empoasca kraemeri in, on Phaseolus	outbreaks of, caused by drought 6398
Brassica oleracea, Delia brassicae on,	vulgaris 1009	brevicollis, Altica
oviposition by 6151	Erinnyis ello in, on rubber 4087	brevicollis, Nebria
Brassica oleracea var. acephala (see Kale)	Euselasia eucerus in, on Eucalyptus 183	Brevicomin (see 6,8-Dioxabicyclo[3.2.1]oc
Brassica oleracea var. botrytis (see	Forcipomyia spp. in 3052	ne, 7-ethyl-5-methyl-)
Cauliflower and broccoli)	Hedylepta indicata in, on Phaseolus	brevicomis, Dendroctonus
Brassica oleracea var. capitata (see	vulgaris 6510	brevicornis, Bracon
Cabbage)	Holymenia clavigera in, on Passiflora 187	brevicornis, Glyptotermes
Brassica oleracea var. caulorapa (see Kohlrabi)	Hypsipyla ferrealis in, on Carapa 1075	brevicornis, Rhopalicus Brevicoryne brassicae
Brassica oleracea var. gemmifera (see	Hysteroneura setariae in, on wheat 1014	biology of 5093, 6504
Brussels sprouts)	Lagria villosa in 5177	control of 5093
Brassica oleracea var. gongyloides (see	natural enemies of 6313	biological 5952
Kohlrabi)	Lepidosaphes beckii in, on Citrus 4003	insecticides for 1534, 1758, 1759,
Brassica oleracea var. italica (see Broccoli,	Mahanarva spp. in, on sugar-cane 289	2474, 4578, 5089, 6504, 6505
sprouting)	M. posticata in	descriptions of 5093, 6504
Brassica oleracea var. viridis (see Kale)	natural enemies of 1375	hyperparasites of, searching efficiency of
Brassica pekinensis (see Cabbage, Chinese)	on sugar-cane 1370	115
Brassica rapa, Plutella xylostella on,	Metopolophium dirhodum in, on wheat	hyperparasitised by, Alloxysta brassicae
distribution pattern of 2992	1014 Miridae in 4854	hyperparasitism of, model 6312
Brassica rapa subsp. oleifera (see Turnip	Myzus persicae in	in Australia 2005, 5952
rape) Brassica rapa subsp. rapa (see Turnip)	on potato 3016	in Austria 1755, 1756
brassicae, Aleyrodes	on wheat 1014	in Brazil 1496
brassicae, Alloxysta	Neoclytus pusillus in, on Jacaranda 3073	in India 1534
brassicae, Barathra (see Mamestra	Neoleucinodes elegantalis in, on tomato	in New Zealand 6505
brassicae)	472	in Poland 4014
brassicae, Brevicoryne	Nezara viridula in, on soyabean 1516	in UK 115, 1758, 1759, 4578, 5093
brassicae, Dasineura	Oncideres spp. in 2933	in USA 4046
brassicae, Delia (Erioischia; Hylemya;	Oncopeltus fasciatus in, on Asclepias	in USSR 6504
Phorbia)	3288	on Brassica campestris var. sarson, in
brassicae, Erioischia (see Delia brassicae)	Opogona sacchari in, on banana 6498	India 1534
brassicae, Hylemya (see Delia brassicae)	Opsiphanes invirae in, on palm trees 2421	on brussels sprouts, in England 1758, 1759, 4578
brassicae, Mamestra (Barathra) brassicae, Phorbia (see Delia brassicae)	Oryzophagus oryzae in, on rice 4519	on cabbage
brassicae, Phorbia (see Della brassicae)	Parlatoria ziziphus in, on Citrus 2980	damage caused by 2005
brassicae, Fieris brassicae, Pseudotorymus	Pectinophora gossypiella in, on cotton	in USSR 6504
Brassicas	4072	on crucifers, damage caused by 5093
insect pests of, in UK 6501	Phyllocoptruta oleivora in, on Citrus	on kale, varietal preferences of 1496
pest control on 6501	5623	on rape
Scaptomyza multispinosa on, in Chile	Phytoseiidae in 1911, 2334	damage caused by 6505
2465	Piezodorus guildinii in, on soyabean	in Austria 1756
Tipulidae on, in UK 5044	1516, 2016	on turnip, in North Carolina 4046
Brassolis astyra	Plunia appliatrae in, on Citrus 4003	parasitised by, <i>Diagretical rapae</i> 115,
in Brazil 2421 on palm trees, in Brazil 2421	Plusia spp. in natural enemies of 5672	parasitised by, Diaeretiena rapae 113, 6312
on pain trees, in Drazil 2421	natural chemics of Jorg	VUAN

```
Bromus racemosus, insect pests of, varietal preferences of 1418
 Brevicoryne brassicae contd.
                                                                                                                           British Columbia contd.
      sweet potato mosaic virus in, not
                                                                                                                                 Pandemis contd.
                                                                                                                                                                                                                                                     Brontispa longissima
control of 936
              transmitted 2497
                                                                                                                                 P. heparana in, on fruit trees 950
 Brevipalpus californicus
                                                                                                                                 Phyllonorycter spp. in, natural enemies of
     control of, acaricides for 978, 983, 989 in India 6487
                                                                                                                                                                                                                                                           biological 3698
in Indonesia 936
                                                                                                                                         385
                                                                                                                                Scolytidae in, on Pseudotsuga 6597
Swammerdamia beirnei in, on apple 961
                                                                                                                                                                                                                                                           in Society Islands 1833
                                                                                                                                 Xyloterus lineatus in
                                                                                                                                                                                                                                                           in Solomon Islands 3698, 4179
      on Citrus
                                                                                                                           in Pseudotsuga menziesii wood 1595
on Pseudotsuga 4097, 5213
British Isles
      in Egypt 978
varietal preferences of
on guava, in Egypt 989
on lemon, in Egypt 983
                                                                                                                                                                                                                                                                in Indonesia 936
in Solomon Islands
                                                                                                                                 Eucoilidae in 4736
                                                                                                                                                                                                                                                     resistance to 4179
parasitised by, Tetrastichus brontispae, in
Tahiti 1833
brontispae, Tetrastichus
Brooksella Kelton
gen. nov., description of 711
key to 711
                                                                                                                                                                                                                                                                in Tahiti 1833
 Brevipalpus phoenicis
biology of 35
                                                                                                                                 Ichneumonidae in
                                                                                                                                 Psylloidea in 6029
      descriptions of 35 in India 1364, 2451, 4295, 5014
                                                                                                                           Tortricidae in, book 3789
Broccoli (see Cauliflower and broccoli)
      on Bauhinia variegata, damage caused by 5014
                                                                                                                           Broccoli, sprouting (Brassica oleracea var.
                                                                                                                                   italica)
     on Clerodendron siphonanthus
damage caused by 5014
development of 35
on eggplant, in Madhya Pradesh
on guava, in Madhya Pradesh 4
on mandarin, in Punjab 2451
on Orosylum indicum, developme
                                                                                                                           pest control on, antifeedants for 
Spodoptera ornithogalli on 4148 
Bromeliaceae
                                                                                                                                                                                                                   4148
                                                                                                                                                                                                                                                           taxonomy of, Brooksetta as replacement for 3729
                                                                                                                           Froreipomyia spp. in axils of, in Neotropical region 6011 insect pollinators developing in 5133

Bromfenvinfos (2-bromo-1-(2,4-
                                                                                                                                                                                                                                                     Brooksetta, taxonomy of, proposed as replacement for Brooksella Kelton Brooksetta althaeae, taxonomy of, transferred from Melanotrichus 71
                                                                                           4295
                                                                                   4295
      on Oroxylum indicum, development of
                                                                                                                                    dichlorophenyl)ethenyl diethyl
                                                                                                                                                                                                                                                     brooksi, Phytocoris
Bruchidae
      on Parthenium hysterophorus, damage
caused by 1364
on pomegranate, in Madhya Pradesh
4295
                                                                                                                                 phosphate)
against, Musca domestica 3218, 5972
in Musca domestica, cholinesterase
                                                                                                                                                                                                                                                           biology of 6689
food-plants of 1584
in India 4197, 4198
                                                                                                                           inhibition by 5972

bromicola, Contarinia (Stenodiplosis)
      on sunflower, in Madhya Pradesh 4295
                                                                                                                                                                                                                                                           in Lebanon 4298
      preyed on by, Typhlodromus homalii, in
Punjab 2451
                                                                                                                                                                                                                                                           in Vigna radiata seeds, in Sri Lanka 429 on Cassia, coevolution of 5750
                                                                                                                           bromicola, Stenodiplosis (see Contarinia
                                                                                                                                   bromicola)
Brevipalpus pulcher
control of, acaricides for 952, 953
in Egypt 952, 953
on apple, in Egypt 952, 953
brevirostris, Acanthomia (see Clavigralla
                                                                                                                                                                                                                                                           on Cicer 5678
parasites of, catalogue 2602
predators of, catalogue 2602
                                                                                                                           Bromine, in Delia antiqua, and in diet
                                                                                                                                    2226
                                                                                                                           Bromocyclen (5-(bromomethyl)-1,2,3,4,7,7-
hexachlorobicyclo[2.2.1]hept-2-ene)
against, Lasioderma serricorme 6651
residual effectiveness of 6651
Bromophos (O-(4-bromo-2,5-dichlorophenyl)
O,O-dimethyl phosphorothioate)
                                                                                                                                                                                                                                                            taxonomy of
                                                                                                                                                                                                                                                                 food-plant preferences as characters for
         brevirostris)
                                                                                                                                                                                                                                                                         6626
brevirostris; Clavigralla (Acanthomia)
brevirostris, Lissorhoptrus
brevis, Cryptotermes
brevis, Deraeocoris
brevis, Oberea
brevispinosa, Myrmica
Breweries, insect pests in, in USSR 1607
Rrewers' yeast
                                                                                                                                                                                                                                                                numerical
                                                                                                                                                                                                                                                                                           5294
                                                                                                                                                                                                                                                     numerical 5294

Bruchidius
in India 4197
in Lebanon 4298

Bruchidius albizziae, gut in 5305

Bruchidius angustifrons, taxonomy of 5294

Bruchidius indigoferae
                                                                                                                                 against
                                                                                                                                      Aelia rostrata, on grain crops 3366
Dacus oleae, on olive 2458
Delia brassicae, on brussels sprouts
                                                                                                                                              216
 Brewers' yeast
diet component for
                                                                                                                                      Loxostege sticticalis 6700
pests of stored grain 2603
Rhyzopertha dominica, in stored grain
                                                                                                                                                                                                                                                           sp. nov., description of 2665 in India 2665
      Anastrepha ludens 1666
Bactra spp. 3871
Ceratitis capitata 806
Dendroctonus frontalis 2283
Homona coffearia 1225
in Tenebrio molitor diet, effects on
                                                                                                                                                                                                                                                     on Indigofera tentoria, in Punjab
Bruchidius saundersi, gut in 5305
Bruchobius colemani (see Dinarmus
                                                                                                                                                                                                                                                                                                                                                 2665
                                                                                                                                      Sitobion avenae, on grain crops 6349
Sitophilus granarius, in stored grain
                                                                                                                                                                                                                                                              colemani)
                                                                                                                                                                                                                                                      Bruchocida orientalis
in India 3680
                                                                                                                                                3130
trehalase of 2686

Brewers' yeast autolysate, diet component for, Eurygaster integriceps 3746

Brick, tetrachlorvinphos on, persistence of 6651
                                                                                                                                       S. oryzae, in stored grain 3130
                                                                                                                                                                                                                                                           parasitising, Zabrotes subfasciatus, in India 3680
                                                                                                                                       Tribolium castaneum
                                                                                                                                in stored grain 3130 in wheat grain 2094 in hemp, toxicity of 6700 in lucerne, toxicity of 6700 in stored grain, uptake from treated surfaces of 2093 in wheat grain persistence of 2004
                                                                                                                                                                                                                                                      Bruchus
                                                                                                                                                                                                                                                           in India 4197
                                                                                                                                                                                                                                                           in Lebanon 4298
in Ukraine 5249
6651

Bridal wreath (see Spiraea prunifolia)
Bridges, termite control in 4463
Brinjal (see Eggplant)
brisbanensis, Typhlodromus
British Columbia

Adelges piceae in, on Abies 6636
agricultural entomology in 4178
Aphis fabae in, on Vicia faba 6016
Autographa californica in 632
Centaurea diffusa in, Urophora spp. for biological control of 6342
C. maculosa in, Urophora spp. for
                                                                                                                                                                                                                                                      Bruchus chinensis (see Callosobruchus
                                                                                                                                 in wheat grain, persistence of 2094
in wheat products, residues of 4119
with chloridimeform, against, Spodoptera
littoralis 5723
                                                                                                                                                                                                                                                              chinensis)
                                                                                                                                                                                                                                                      Bruchus collusus, taxonomy of, synonym of
Acanthoscelides pallidipennis 4208
                                                                                                                                                                                                                                                      Bruchus lentis
biology of 5667
control of 5667
                                                                                                                                 with dimetilan, against, Dacus oleae, on olive 2458
                                                                                                                                 with fenchlorphos, in apple, toxicity of
                                                                                                                                                                                                                                                           in France 5667
                                                                                                                                                                                                                                                           on lentil, damage caused by 5667
parasitised by, Triaspis thoracicus, in
France 5667
                                                                                                                                         5603
                                                                                                                                 with methamidophos, against, Spodoptera littoralis 5723
      C. maculosa in, Urophora spp. for biological control of 6342 Choristoneura occidentalis in, natural enemies of 6637 Cydia pomonella in, on apple 390 Denderdeus pomores in consistence in prima processis on Pirima de Control de Contr
                                                                                                                           Bromophos-ethyl (O-(4-bromo-2,5-dichlorophenyl) O,O-diethyl
                                                                                                                                                                                                                                                     Bruchus pisorum
gut in 5305
                                                                                                                                    phosphorothioate)
                                                                                                                                                                                                                                                            in USSR 3523, 3524
                                                                                                                                                                                                                                                           on pea, varietal preferences of 3523, 3524
                                                                                                                                 against
      Dendroctonus ponderosae in, on Pinus
                                                                                                                                      Anticarsia gemmatalis, on soyabean
                5202, 6590
                                                                                                                                               3007
                                                                                                                                                                                                                                                            parasites of, effects of pea varieties on
      Epiblema cynosbatella in, on rose 1065
Euceraphis gillettei in, natural enemies of
551
                                                                                                                                      Delia brassicae, on brussels sprouts 216, 3809
                                                                                                                                                                                                                                                                   3524
                                                                                                                                                                                                                                                           parasitised by, Triaspis thoracicus, in USSR 3524
                                                                                                                           Plusia spp., on soyabean 3007
Bromopropylate (1-methylethyl 4-bromo-α-(4-bromophenyl)-α-hydroxybenzeneacetate)
                                                                                                                                                                                                                                                     Bruchus rufimanus
in Poland 3519
      Eutromula pariana in, natural enemies of
              951
                                                                                                                                                                                                                                                     on bean, damage caused by 3519
on pea, damage caused by 3519
Bruchus signaticornis
biology of 5667
control of 5667
in France 5667
      Gnathotrichus spp. in, in Pseudotsuga
menziesii wood 1595
Hemithea aestivaria in, on fruit trees
                                                                                                                                 against
                                                                                                                                      Tetranychus ulmi, on grapevine 5589
Tetranychidae, on apple 6464
Tetranychus urticae 1040
on cotton 1545
        1974, 1975
Malacosoma californicum in 574
       Operophtera spp. in, natural enemies of 6327
                                                                                                                           on cotton 1343
on grapevine 5589
Bromus catharticus, Costelytra zealandica
on, damage caused by 5872
Bromus inermis, cereal aphids on, survival
and reproduction of 2358
                                                                                                                                                                                                                                                           on lentil, damage caused by 5667
parasitised by, Tetrastichus spp., in
France 5667
       Orgyia pseudotsugata in, on Pseudotsuga
519
                                                                                                                                                                                                                                                     Bruchus tetricus, taxonomy of, synonym of
Acanthoscelides obtectus 4208
       Pandemis cerasana in, natural enemies of
                1065
```

Prucki, Coccinella septempunctata	Buckwheat (Fagopyrum esculentum)	Bunium persicum, Cavariella bunii on, in
prullei, Scymnus	Gastrophysa atrocyanea on, not feeding	Tadzhikistan 2663
prumata, Operophtera	849	buoliana, Rhyacionia
Brunchorstia pinea (see Gremmeniella	Bufencarb (mixture of 3-(1-	Bupalus piniarius
abietina)	ethylpropyl)phenyl and 3-(1-	in UK 6602
Brunei, Nilaparvata lugens in, on rice 2381 brunnea, Colaspis	methylbutyl)phenyl methylcarbamates)	in West Germany 509
runnea, Periplaneta	against Diabrotics ann 6253	parasites of, in West Germany 509
runneipennis, Hypera	Diabrotica spp. 6253 Distantiella theobroma, on cacao 4078	population dynamics of 6602
orunneus, Chorthippus	Nilaparvata lugens 3397	Buprestidae in USSR 2791
orunneus, Hylastes	on rice 3395, 3396	in pine wood, in El Salvador 5167
runneus, Lyctus	Sahlbergella singularis, on cacao 4078	on Pinus, in Sweden 5747
runneus, Prolasius	in man, toxicity of 4078	buquet, Thaneroclerus
orunneus, Pseudomyrmex	Buffalo, Asian (Bubalus bubalis; water	burchellii, Eciton
runnicornis, Herpestomus	buffalo)	Burdock, common (see Arctium minus)
prunniventris, Eurytoma	Buffalo (Asian) dung, Coleoptera in, in	Burdock, great (see Arctium lappa)
Brussels sprouts (Brassica oleracea var.	Egypt 4475	Burma
gemmifera)	bufonius, Poekilocerus	Braconidae in 4446
Apis mellifera on, pollination by 4578	Buildings	Chalcidoidea in 4462
Artogeia rapae on, in England 4176 Brevicoryne brassicae on	ant control in, insecticides for 825	Coreidae in 796, 2265
damage caused by 5093	arthropod pests in, in Netherlands 816	Idioscopus nigroclypeatus in, on mango
in England 115, 1758, 1759, 4578	Nacerdes melanura in, in North Dakota	4010
Calliphoridae on, pollination by 4578	5825	Pteromalidae in 702
Delia brassicae on, in Belgium 216, 3809	termite control in 4463	rice in, insect pests of 900
Myzus persicae on, in England 4578	Bulgaria	Burning, of pastures, role in pest control of
Phyllotreta undulata on, feeding by 4018	Acanthoscelides obsoletus in, in stored	6432
Pieris brassicae on, in England 4176	beans 375	Burning, controlled
Bryobia, preyed on by, Stethorus griseus	Aculus trifolii in, on Trifolium 6440	of grassland, effects on invertebrates of
2840	Agrotis ipsilon in 68	3431
Bryobia cristata	A. segetum in 1391	of wheat stubble, effects on
biology of 1451 food-plants of 1451	Aphidoidea in 6266 apple in, insect pests of 1455	entomophagous arthropods of 2889 use in pest management of 625
in China 4866	biological control in 2620	bursarius, Pemphigus
in UK 1451	Bostrichidae in, on grapevine 942	Bursicon, in Tenebrio molitor, induction of
on Chrysanthemum, in China 4866	cabbage in, insect pests of 4022	cyclic AMP by 746
Bryobia kissophila	cauliflower in, insect pests of 4022	Busan 72A (see Thiocyanic acid, (2-
biology of 1451	Chrysopidae in 4987, 6306	benzothiazolylthio)methyl ester)
in UK 1451	Cydia pomonella in	busckii, Drosophila
on Hedera helix, in UK 1451	natural enemies of 1706	Busseola fusca
on Trifolium, in UK 1451	on apple 2442, 2960, 2962	control of, insecticides for 3888
Bryobia praetiosa	Eotetranychus pruni in, on grapevine	in Ghana 3888, 4497
biology of 1451	370, 1964	in Zimbabwe 4720
in UK 1451 on grasses, in UK 1451	Eriophyidae in, on apple 388 Eupoecilia ambiguella in, on grapevine	on maize, damage caused by 3888, 4720 on sugar-cane, in Ghana 4497
on legumes, in UK 1451	369	sex pheromone of, identity of 4720
Bryobia ribis	Eurygaster integriceps in, on wheat 2873	busseolae, Platytelenomus
biology of 1451	Geometridae in, on apple 1452, 1454	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-,
control of 1451	grain crops in, pest control on 5526	against, Viteus vitifoliae, on grapevine
in UK 1451	Heliothis armigera in, on maize 314	5588
on gooseberry, in UK 1451	Hoplopteridius lutosus in 3877	1,4-Butanediamine, in Heliothis zea nuclear
Bryobia rubrioculus	Lobesia botrana in, on grapevine 369,	polyhedrosis virus 4686
biology of 1451, 1973	3990	1,4-Butanediamine, N-(3-aminopropyl)-, in
control of 1451, 1973 in UK 1451	Loxostege sticticalis in, on fennel 2504	Heliothis zea nuclear polyhedrosis virus 4686
in USSR 1973	Mamestra brassicae in natural enemies of 419, 420	Butanedioic acid, mono(2,2-
on apple, in UK 1451	on sugar-beet 2620	dimethylhydrazide) (see Daminozide)
on fruit trees, in Caucasus 1973	mining insects in 3326	Butanedioic acid, [(dimethoxyphosphinothio-
on pear, in UK 1451	Myzus persicae in 1462	yl)thio]-, diethyl ester (see Malathion)
bryoniae, Liriomyza	Napomyza lateralis in, on sunflower	Butanedioic acid, [(dimethoxyphosphinyl)thi
BTB-202 (see Bacillus thuringiensis var.	5120	o]-, diethyl ester (see Malaoxon)
thuringiensis)	Ostrinia nubilalis in, on maize 314, 2620	Butanedioic acid, 2-[(dimethoxyphosphinyl)t
bubalus, Ceresa	Papilio machaon in, on fennel 2504	hio]-, 4-ethyl ester, determination of
Bubulcus ibis, preying on, Heliothis	peach in, pest control on 3487	1138 Butanedioic acid, hydroxy-
armigera, in Karnataka 5679 Bucarpolate (see 1,3-Benzodioxole-5-	Pentatomidae in, on sunflower 6558 plant protection in 3183	in cotton, role in susceptibility to
carboxylic acid, 2-(2-butoxyethoxy)ethyl	Psylla visci in, on Alnus 4649	Amrasca biguttula of 6568
ester)	Quadraspidiotus perniciosus in, on fruit	in Locusta migratoria flight muscles,
Bucculatrix crataegi	trees 375	during flight 4228
in USSR 5598	Rhyzopertha dominica in, in stored grain	Butanedioic acid, [[methoxy(methylthio)pho-
on quince, in USSR 5598	3130	sphinyl]thio]-, diethyl ester,
parasitised by, Echthrodryinus	Sitophilus granarius in, in stored grain	determination of, in presence of
krasilnikovae, in USSR 5598	3130	malathion and degradation products
Bucculatrix pyrivorella	S. oryzae in, in stored grain 3130 Systole albipennis in, on fennel 2504	645 2,3-Butanediol, 1,4-bis(thiohydroxy)-, in
control of, insecticides for 3482 fecundity in, variation in 6471	Thysanoptera in, on wheat 301	Manduca sexta diet, unable to replace
in Japan 3482	Tortricidae in, on apple 1454	ascorbic acid 2191
life tables for 3482	Trialeurodes vaporariorum in 5267	Butanoic acid
on pear, in Japan 3482	Tribolium castaneum in, in stored grain	heptyl ester, with octyl butanoate,
parasites of, in Japan 3482	3130	attractant for, Vespula squamosa
predators of, in Japan 3482	Bullace (see Damson)	2252
Bucculatrix thurberiella	bullans, Camaromyia	octyl ester, with heptyl butanoate,
in Honduras 3557	bullata, Sarcophaga	attractant for, Vespula squamosa
in USA 6559	bullatus, Geocoris	2252 2,2,2-trichloro-1-(dimethoxyphosphinyl)et-
nocturnal behaviour in 6559	bulli, Perkinsiella Buminal (see Protein hydrolysate)	hyl ester (see Butonate)
on cotton in Arizona 6559	Bunema (see Carbamodithioic acid,	Butanoic acid, 4-amino-
in Honduras 3557	(hydroxymethyl)methyl-, potassium salt)	in locust, role in nervous transmission of
bucephalus, Heliocopris	α-Bungarotoxin, in Drosophila	749
Buchloe dactyloides, Surattha indentella on,	melanogaster, toxicity of 6699	in Manduca sexta, effects on cyclic
in Kansas 1943	bunii, Cavariella	nucleotides in nerve cord of 751
Buckthorn, sea (see Hippophae rhamnoides)	Bunium elequans, insecticidal activity of oil	in rice, role in resistance to Nilaparvata
	from 6173	lugens of 915

```
914
 Butanoic acid, 4-amino- contd.
      Nilaparvata lugens feeding responses to
              3413
 Butanoic acid, 2-methyl-
      in Papilio protenor larval osmeterial
              secretion 4234
      ethyl ester, in Papilio protenor larval
              osmeterial secretion 4234
      methyl ester, in Papilio protenor larval
              osmeterial secretion 4234
 1-Butanol
      in Drosophila melanogaster diet,
              utilisation of 6048
      in Megoura viciae, growth regulator activity of 4165
 1-Butanol, 3-methyl-, acetate, in Ascosphaera apis, inhibiting growth
         3683
 2-Butanone, 4-[4-(acetyloxy)phenyl]- (see
         Cue-lure)
 2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-
         [(methylamino)carbonyl]oxime (see
          Thiofanox)
 2-Butenedioic acid
      (Z)-
           synergist for
                 chlorpyrifos 226
fenvalerate 226
malathion 226
                 mexacarbate 226
                 phosfolan 226
 (E)-, in cotton, role in susceptibility to

Amrasca biguttula of 6568

2-Butenoic acid, 3-[(dimethoxyphosphinyl-
      )oxy]-
methyl ester (see Mevinphos)
1-phenylethyl ester, (E)- (see
1-phenylethyl ester, (E)- (see Crotoxyphos)

2-Butenoic acid, 3-hydroxy-, 1-phenylethyl ester, in soil, crotoxyphos product 5271

2-Butenoic acid, 3-methyl-, 2-(1-methylpropyl)-4,6-dinitrophenyl ester (see Binapacryl)

2-Butenoic acid, 3-methyl-4-[4-(phenylmethyl)phenoxyl-, ethyl ester, against, Planococcus citri, on Citrus 3500
 3-Buten-1-ol, 3-methyl-, in Ips cembrae males, growth regulators stimulating production of 4238
production of 4238
3-Buten-2-ol, 2-methyl-, with 2-methyl-6-methylene-2,7-octadien-4-ol, and (1α,2β,5α)-4,6,6-trimethylbicyclo[3.1.1]h-ept-3-en-2-ol, attractant for, Ips typographus 6589
3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-
in maize oil 2649
Psila rosae responses to 5927
 Psila rosae responses to 5927
3-Buten-2-oné, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, Psila rosae responses
         to 5927
to 5927

Butonate (2,2,2-trichloro-1-
(dimethoxyphosphinyl)ethyl butanoate)
against, Agrotis segetum 6709
in Apis mellifera, toxicity of 1702
in birds, toxicity of 1702
in predatory insects, toxicity of 1702
insecticidal activity of 1702
Butternut (see Juglans cinerea)
Butyric acid (see Butanoic acid)
Bux (see Bufencarb)
Hyctiscus betulae
 Byctiscus betulae
biology of 2941, 5064
control of 5064
      control of 3004
insecticides for 29
timing of 2941
food-plants of 2941
in France 2941
in USSR 5064
                                                 2941
 in USSK 5064
on grapevine, damage caused by 2941
on pear, in USSR 5064

Byturus tomentosus
biology of 1442, 5055
control of 1442, 5055
descriptions of 5055
      in UK 5055
in USSR 1442
      on blackberry, damage caused by on loganberry, damage caused by on raspberry, damage caused by 5055
```

```
Byturus tomentosus contd.
     preyed on by
         Anthocoris nemorum, in USSR 1442
Chrysopa perla, in USSR 1442
c-nigrum, Amathes (see Xestia c-nigrum)
c-nigrum, Xestia (Amathes)
Cabbage (Brassica oleracea var. capitata)
     Aleyrodes proletella on, in Netherlands
            3829
     arthropod pests of
         in Kenya 4181
in Swaziland 2159
     Artogeia rapae on
in Chuvash ASSR
in Florida 1000
         in Georgia (USA)
         in Japan 4577
         in Maritime Territory 5839
         in Nebraska 6226
         in New South Wales
in New Zealand 5888
                                                      1497
         oviposition by 2472
          varietal preferences of 4937
     Ascia monuste on, oviposition by 185
     Autographa gamma on, in Maritime
Territory 5839
     Brevicoryne brassicae on
         damage caused by
in USSR 6504
     Ceutorhynchus assimilis on, in Tennessee
     C. pallidactylus on, damage caused by
     Delia brassicae on
    Delia brassicae on
effects of cover crops on 6506
in Finland 1490
in Irish Republic 5928
oviposition by 6151
D. floralis on, in Finland 1490
Diacrisia obliqua on 2737
Eurydema oleraceum on, in USSR 6504
fenitrothion in, residues of 2474
fensulfothion in, residues of 5090
Hellula phidilealis on, in Chile 4406
H. rogatalis on, in Florida 1000
H. undalis on, in Andhra Pradesh 5650
insect pests of
     insect pests of
in Poland 4014
in Quebec 269
         in Queensland 2005
in UK 6501
     resistance to 6227 insecticides in, residues of, effects of
    insecticides in, residues of, effects of washing and trimming on 998

Mamestra brassicae on in Bulgaria 419 in Chuvash ASSR 5838 in France 1669 in Maritime Territory 5839 in Moldavia 5096 in UKraine 5096 in UKraine 5096 in UKraine 1643
    Mycoplasmatales in pathogenicity to Drosophila of 5836 pathogenicity to Calleria of 5836 Myzus persicae on, in Japan 4733 pest control on 2005, 6501
         book 3696
         companion crops for 3512, 6226
companionate planting ineffective for
2471
in USSR 6693
         in USSR 6693
integrated 322
thresholds for 2999, 4022, 5963
timing of 2002
     Phyllotreta undulata on, feeding by 4018
    Pluris brassicae on, forecasting infestations of 5963

Plutella xylostella on in Florida 1000 in Georgia (USA) 2999 in Gujarat 4023
         in Maritime Territory
in Nebraska 6226
in New South Wales
                                                        5839
         in New Zealand
in Victoria 5658
                                             5888
          in West Malaysia 1001, 5657
    Schistocerca gregaria on
development of 2319
morphology of 3832
Spodoptera littoralis on, in Egypt 4477
```

```
Cabbage contd.
      Trichoplusia ni on
          in Georgia (USA)
          in Missouri 2001
in Nebraska 6226
      virus control in, vector control for 5089
 Cabbage, Chinese (Brassica chinensis and B.
        pekinensis)
      Athalia rosae on, in Austria 1756

Delia brassicae on, oviposition by 6151
      Phyllotreta cruciferae on, in Ontario
             4019
     Pseudoplusia includens on, feeding preferences of 6201
 Cabbage fields
Carabidae in, effects of cover crops on
5928, 6506
oinsects in, sampling of 173
predatory insects in, effects of Bacillus thuringiensis on 5839
Syrphidae in, in Poland 1892
Cabbage-leaf powder, diet component for,
Plutella xylostella 809
Cable oxeringer leasters in de
 Cable coverings, Isoptera in, damage caused
       by 3147
 cacaliae, Oreina
 Cacao (Theobroma cacao)
      Anomis leona on, in Ghana 2552
Bathycoelia thalassina on, in Ghana
      Ceratopogonidae on, in Colombia 4080
      Characoma stictigrapta on, damage cause by 1054, 6576
      Coccodiplosis coffeae on, in São Tomé
    258
Distantiella theobroma on damage caused by 583 in Cameroon 4078
Earias biplaga on, in Ghana 2552
Forcipomyia spp. on in Neotropical region 6011 pollination by 498
F. blantoni on, pollination by 4080 insect pests of, in Sarawak 2651
Miridae on, in Ghana 5359
Pantorhytes pseudocarbonarius on, in Papua New Guinea 1053 pest control on 583 insecticides for 1686
             258
          insecticides for
     integrated 322
pests of, in Kerala 1902
pollinators of, breeding places of
             5133
      Pseudaonidia trilobitiformis on 5088
      Sahlbergella singularis on
          damage caused by 583
damage caused by 383
distribution pattern of 6575
in Cameroon 4078
Selenothrips rubrocinctus on, damage
caused by 5132
Cacao leaf-litter, Forcipomyia spp. in, in
Neotropical region 6011
Cacao plantations
      Dysdercus fasciatus in, in Nigeria 6575
Formicidae in, effects of insecticides on
      insecticide use in, problems caused by
             1684
       Miridae in, in Ghana 5359
 Stenocoris elegans in, in Nigeria 6575
Cacao (stored beans)
     Dermestes spp. in, development of 36 insect pests of, in Nigeria 6645, 6646 parasitic insects in, in Nigeria 6646 fumigants for 6644 fumigants for 6646 insectioides for 1696
         insecticides for 1686
redatory insects in, in Nigeria 6646
predatory insects in, in Nigeria 6646
Trogoderma granarium in, imported into
USSR 1607
cacoeciae, Apanteles
cacoeciae, Trichogramma
Cacoecimorpha pronubana
development in
effects of humidity on 507
effects of temperature on 507
EPPO data sheet on 4703
Caconsvilla costalis
Caconsvilla costalis
Cacopsylla costalis
in Turkey 1310
on apple, in Turkey 1310
Cacopsylla pyri
in Turkey 1310
```

on pear, in Turkey 1310

California contd.

Subject Index Cacopsylla pyricola (see Psylla pyricola) Cacopsylla vasilievi (see Psylla vasilievi) Cacopsylla visci (see Psylla visci) Cacti Drosophila spp. on, in Australia 3775 Rhizoecus cacticans on, in Spain 5134 cacti, Chilocorus cacticans, Rhizoecus Cactoblastis on Eriocereus, and biological control using, in Queensland 6337 on Eriocereus martinii, in Argentina 6337 Cactoblastis cactorum 6337 on Opuntia aurantiaca, and biological control using, in South Africa 4480 cactorum, Cactoblastis Cactus, jointed (see Opuntia aurantiaca)
Cadmium, in foodstuffs, residues of 3176
Cadra cautella (see Ephestia cautella)
Cadurcia, parasitising, Nephopterix
eugraphella, in Punjab 1478
caeca, Sinella caeca, Sinella
caelatus, Orthotomicus
Caenoblissus pilosus
in Papua New Guinea 903
on maize, in Papua New Guinea 903
on rice, in Papua New Guinea 903
on sorghum, in Papua New Guinea 903
caerulea, Zicrona. caerulea, Zicrona caerulea, Zacrona caeruleus, Arrocercops Caesalpinia, Amblycerus spp. on 1584 Caesalpinia cacalaco, Amblycerus acapulcensis on, in Mexico 5199 caespitum, Tetramorium caesus, Pleurophaeus Caffeic acid, dihydro- (see Carrier acid, uniydro- (see
Benzenepropanoic acid, 3,4-dihydroxy-)
Caffeine (see 1H-Purine-2,6-dione, 3,7dihydro-1,3,7-trimethyl-)
cagnagellus, Yponomeuta
cagnatellus, Yponomeuta (see Y.
cagnagellus)
cagnagellus)
cagnagellus)
cagnagellus) caja, Arctia Cajanus cajan Aphis craccivora on, in Uttar Pradesh 5108 arthropod pests of, in Andhra Pradesh 4722 Ceutorhynchus asperulus on, in Karnataka 5675 Clavigralla gibbosa on, development of 5674 C. tomentosicollis on, development of 3008 Exelastis atomosa on, in Tamil Nadu 6525 Heliothis armigera on in India 3418, 6352 in Tamil Nadu 6525 insect pests of
effects of intercropping on 2488
in Delhi 2488
in Nigeria 1016 Maruca testulalis on, in Tamil Nadu 6525 Melanagromyza obtusa on, in Tamil Nadu mung bean yellow mosaic virus in, whitefly transmission of 6528 Oberea brevis on, in Madhya Pradesh 2484 metabolism of uptake of 1693 od borers on, in India 6524 Spodoptera litura on, lipid utilisation by Cajanus cajan fields, parasitic insects in, in
Andhra Pradesh 6310
Cajanus cajan (stored seeds), Callosobruchus
maculatus in, varietal preferences of 5831 Calacarus citrifolii control of acaricides for 2982 cultural 2982 in South Africa 2982 on banana, in South Africa Calacarus jasmini sp. nov., description of 3726 in India 3726

Calacarus jasmini contd. on Jasminum sambac, in West Bengal 3726 calamistis, Sesamia Calandra granaria (see Sitophilus granarius) Calandra oryzae (see Sitophilus oryzae) calandrae, Anisopteromalus Calaphis similis Sp. nov., description of 5402
in North Korea 5402
on Betula, in North Korea 5402
Calathea, Culicoides spp. in inter-bract
liquid of, in Brazil 3052
Calathus fuscipes
in West Germany 6357
in maize fields, in West Germany 6357
Calathus melanocenhalus Calathus melanocephalus activity in 5374 in Netherlands 4874 in West Germany 6357 in maize fields, in West Germany 6357 traps for 4874 calceolariae, Pseudococcus Calcium in grain crops, relation of Oulema melanopus susceptibility and 6157 in Metopolophium dirhodum, and in oats 874 in Noctua pronuba, use in chemoprinting of 2223 Neodiprion sertifer of 5756 ion (Ca²⁺) in Pinus sylvestris, utilisation by in Eucalyptus xylem sap, utilisation by Machaerotidae of 2579 in Laodelphax striatella diet in Phaseolus, effects on Aphis craccivora of 4340 in Vigna unguiculata, effects on Aphis craccivora of 4340 Calcium sulfide (Ca(S_x)), against, Tarsonemus pallidus, on strawberry 6450 Calco Oil Red, in Cydia pomonella diet, effects on mating of 3287 caledoniae, Nysius caledonica, Coelopisthia Calendula officinalis (see Marigold) Cales noacki insecticides in, toxicity of 3493 parasitising, Aleurothrixus floccosus, and biological control using, in Spain 3493, 3494, 3495, 3497 calidella, Ephestia Aceria vaga in, on Juglans 1968 Acyrthosiphon kondoi in, on squash 1002 almond in, pest control on 2932

Amyelois transitella in, on almond 374
aphids in, on cucurbits 1485
apple in, pest management on 5893
aquatic Hemiptera in 3781

Autographa californica in, on lettuce
1487 Callosobruchus chinensis in, in imported Nelumbo nucifera seeds 4676 Carpophilus spp. in, on fig 3999 Chironomidae in, natural enemies of Chromaphis juglandicola in, on walnut 3991 Conoderus amplicollis in 4015 C. exsul in 4416 C. falli in 4416 Corythucha morrilli in, on Ambrosia 5502 cucurbits in, pest management on 1488
Cydia pomonella in
on apple 2435, 5895
on pear 2435
Dendroctonus brevicomis in 3064
on Pinus 2580 Eremocoris cupressicola in, on Cupressus Eriophyes aloinis in Eriophyidae in 2656 Euschistus conspersus in 5364 Frankliniella occidentalis in on strawberry 5826 on strawberry 58 on tomato 1483 Graphocephala atropunctata in, on grapevine 5591

Heliothis virescens in 1214 H. zea in, on tomato 5894 Homoeosoma electellum in, on sunflower 1540 Incisitermes fruticavus in, on Simmondsia 5119 Ips paraconfusus in, on Pinus 555, 2594 Keiferia lycopersicella in natural enemies of 2501 on tomato 2501, 5704 Kleidocerys obovatus in, on Cupressus 2063 lettuce in, insect pests of 1486
Liriomyza sativae in, on squash
Lygus spp. in, on cotton 1273
L. lineolaris in, on apple 1453
Neoaliturus tenellus in, on Citrus 1489 olive in, pest management on 406

Orgyia pseudotsugata in, on Abies 3588,
4636 ornamental plants in, arthropod pests of 1063 Panonychus citri in natural enemies of 402 on Citrus 6489 P. ulmi in, natural enemies of 3994 pear in, pest management on 5892 Pectinophora gossypiella in, on cotton 1038, 1273, 1745, 2529, 2549, 3043, 3044, 3556 Peridroma saucia in, on grapevine 944 Phantacrus lobatus in, on Pseudotsuga 1078 Phthorimaea operculella in, on potato 1021, 3534
Phytoseiidae in 1893 Pleroneura spp. in, natural enemies of 3066 Podosesia syringae in 1082 Pogonomyrmex californicus in 4975 Pseudococcus comstocki in on Citrus 5079 on mulberry 1298
Psyllidae in, in snowfields 1838
Pulvinaria delottoi in, on Carpobrotus Quadraspidiotus perniciosus in 5276 natural enemies of 1346 on peach 2434 Rhopalomyia californica in, natural enemies of 833 Salsola iberica in, Coleophora parthenica for biological control of 4489 Sesiidae in 4850 soyabean in, insect pests of 1484 Spodoptera exigua in, natural enemies of 480 Systena blanda in, natural enemies of 466 Tetranychus pacificus in natural enemies of 3994 on soyabean 1522 T. urticae in 1522 on soyabean on strawberry 3987
Thrips tabaci in, on onion 3540
Tribulus terrestris in Microlarinus largynii for biological control of 855

M. lypriformis for biological control of 855 Trichoplusia ni in, natural enemies of 480 Viteus vitifoliae in, on grapevine 372 Xanthogaleruca luteola in, on Ulmus 538 Xestia c-nigrum in, on grapevine 944 Zygogramma tortuosa in, on Ambrosia 5011 californica, Coccinella californica, Moranila californica, Rhopalomyia californicum, Malacosoma californicum, Nosodendron californicus, Amblyseius californicus Pravinelus californicus, Ammyseius californicus, Brevipalpus californicus, Leperisinus californicus, Pelenomus californicus, Telenomus californicus, Tydeus Caliothrips indicus control of insecticides for control of, insecticides for 2494

in pastures, in Saskatchewan 929

in Vigna radiata seeds, in Sri Lanka 429

```
Caliothrips indicus contd.
in India 2494, 5468
on potato, in Maharashtra 2494
                                                                                                                                                                                                                                                                       Caloglyphus, on groundnut, in North
Carolina 2019
                                                                                                                                     Callosobruchus analis
                                                                                                                                          biology of 6666
                                                                                                                                          gut in 5305
in India 6666
                                                                                                                                                                                                                                                                         Caloglyphus absoloni
       preyed on by, Anthocoridae, in India 5468
                                                                                                                                                                                                                                                                             food of 1357
in China 1357
in USSR 1357
                                                                                                                                          in Psophocarpus tetragonolobus seeds, resistance to 5222
 Caliroa aethiops (see Endelomyia aethiops)
 Caliroa cerasi
                                                                                                                                           in Vigna radiata seeds, development of
                                                                                                                                                                                                                                                                              in Anacanthotermes ahngerianus mounds,
       biology of 5396
                                                                                                                                                    6666
                                                                                                                                                                                                                                                                                       in USSR 1357
       food-plants of 5396
in USSR 5396
                                                                                                                                          oviposition in, seed preferences for 5827
                                                                                                                                                                                                                                                                               in Coptotermes formosanus mounds, in
                                                                                                                                           parasites of, in India 6666
                                                                                                                                                                                                                                                                                       China 1357
                                                                                                                                                                                                                                                                        Caloglyphus berlesei
acaricide resistance in, role of esterases in
       on cherry, in Lithuania 539 on pear, in Lithuania 5396
                                                                                                                                     Callosobruchus chinensis
                                                                                                                                          control of
                                                                                                                                                antifeedants for 3878
inert dusts for 2598, 2609
insecticides for 433, 445, 663, 1617,
3878, 5227, 5228, 5832
       preyed on by, Anthocoris nemorum, in Lithuania 5396
                                                                                                                                                                                                                                                                                       4154, 4155
                                                                                                                                                                                                                                                                               enzymes in 4154, 4155
  Caliroa limacina (see C. cerasi)
                                                                                                                                                                                                                                                                         Caloglyphus michaeli
 Caliroa quercuscoccineae
biology of 6210
in USA 6210
                                                                                                                                                                                                                                                                              on Pythium aphanidermatum, rearing of 2019
                                                                                                                                           fecundity in, effects of γ-irradiated diet on
in USA 6210
on Quercus coccinea, in Kentucky on Quercus palustris, in Kentucky parasites of, in Kentucky 6210
pathogens of, in Kentucky 6210
predators of, in Kentucky 6210
Callaphididae, in urban areas, in West Germany 4300
Callaphis juglandis
control of, threshold for 5592
descriptions of 5592
in Italy 5592
on walnut, damage caused by 5592
Calleida decora
in USA 2367
reservoirs of 2367
Calleida splendidula
in India 1478
preying on, Nephopterix eugraphella,
                                                                                                                                                                                                                                                                               Pythium myriotylum in, transmission of
                                                                                                                                                    1108
                                                                                                                                          glycogen in, reserves of 4266
in Bangladesh 433
in India 6666
in Swaziland 4662
                                                                                                                                                                                                                                                                                       2019
                                                                                                     6210
                                                                                                                                                                                                                                                                         Calomela
                                                                                                                                                                                                                                                                              in Australia 4730
                                                                                                                                                                                                                                                                               taxonomy of 4730
                                                                                                                                           in Taiwan 445
                                                                                                                                                                                                                                                                         Calophya nigra
                                                                                                                                          in Thailand 451
                                                                                                                                                                                                                                                                              descriptions of
                                                                                                                                                                                                                                                                               in USSR 147
                                                                                                                                          in Nelumbo nucifera seeds, imported into
                                                                                                                                                                                                                                                                             in USSR 147
on Phellodendron amurense, in Maritime
Territory 147
on Phellodendron sachalinense, in
Maritime Territory 147
preyed on by, Syrphus vitripennis, in
Maritime Territory 147
leastly the best least to the least lea
                                                                                                                                                    California 4676
                                                                                                                                          in Psophocarpus tetragonolobus seeds, resistance to 5222
                                                                                                                                                  Vigna mungo seeds, resistance to 451
                                                                                                                                          in Vigna radiata seeds
                                                                                                                                                 in Bangladesh
                                                                                                                                                                                                                                                                        Mantime Territory 147

Caloptilia betulicola
in West Germany 1576
on Betula, in West Germany 1576
parasites of, in West Germany 1576
                                                                                                                                                 in Taiwan 445
in Thailand 451
                                                                                                                                           life-span in, not affected by y-irradiated
       preying on, Nephopterix eugraphella, in
Punjab 1478
                                                                                                                                                    diet 1108
                                                                                                                                           on Vigna radiata
in Taiwan 445
resistance to 448, 450
                                                                                                                                                                                                                                                                               population dynamics of 1576
                                                                                                                                                                                                                                                                       population dynamics of 1576

Caloptilis theivora
biology of 3056
in Japan 3056
on tea, in Japan 3056
parasites of, in Japan 3056
Calosoma, preying on, Noctuidae, in
Western Australia 6356

Calosoma frigidum
in Canada 1594
 Calliandra, Stator spp. on Callidulidae, taxonomy of Calliephialtes grapholithae in USA 2825, 3993
                                                                                                                                          sterilisation of, chemosterilants for 5355 taxonomy of 5294
       parasitising
                                                                                                                                     Callosobruchus maculatus
             Cydia caryana, in Texas 3993
Epiblema scudderiana, in Pennsylvania
2825
                                                                                                                                           amino acids in, developmental changes in
                                                                                                                                          biology of 207
control of
Calliephialtes notandus
in USA 2825
parasitising, Epiblema scudderiana, in
Pennsylvania 2825
calligonicola, Psyllaephagus
Calligonum, Pachypsylloides spp. on, in
Turkmenia 280
                                                                                                                                                fumigants for 445
insecticides for 1617
\gamma-irradiation for 207
oils for 4132
                                                                                                                                                                                                                                                                              preying on, Choristoneura fumiferana, in
Ontario 1594
                                                                                                                                                                                                                                                                        calotropi, Tegolophus
Calotropis
                                                                                                                                          temperature control for 3669
glycogen in, developmental changes in
727
                                                                                                                                                                                                                                                                       Calotropis
Poekilocerus spp. on 4425
P. pictus on, in Bihar 1324
Spilostethus pandurus on, in India 3034
Calotropis gigantea, Poekilocerus pictus on, energetics of 4958
Calotropis procera, Tegolophus calotropi on, in West Bengal 4727
Calpe emarginata (see Oraesia emarginata)
Calpe provocans (see Oraesia provocans)
Calpe triobliqua (see Oraesia triobliqua)
Calpodes ethlius, moulting hormones in, during larval-pupal transformation 6079
Caltrop (see Tribulus terrestris)
Calystegia sepium
Turkmenia 280

Calligrapha, keys to 5761

Calligrapha spiraea
biology of 5761
descriptions of 5761
in USA 5761
on Physocarpus opulifolius, in
Pennsylvania 5761
parasitised by, Erixestus winnemana, in
Pennsylvania 5761
calligraphus. Ins
                                                                                                                                           gut in 5305
in India 6666
                                                                                                                                          in Initial 6000
in Cajanus cajan seeds, varietal
preferences of 5831
in Cicer arietinum seeds, varietal
preferences of 5831
in Psophocarpus tetragonolobus seeds,
resistance to 5222
 Pennsylvania 5761
calligraphus, Ips
Calliphora, body temperature in, measuring of 2727
Calliphora erythrocephala (see C. vicina)
Calliphora vicina
activity in, monitoring of 172
air resistance of 1784
cuticle in, hardening and coloration of 5334
                                                                                                                                           in Vigna mungo seeds, varietal preferences
of 5833
                                                                                                                                           lipids in
                                                                                                                                                                                                                                                                        Calystegia sepium
Noctuidae on, development of 3802
                                                                                                                                          age-related changes in 4268 developmental changes in 727 mating competitiveness in, effects of γ-irradiation on 770 on Vigna unguiculata, resistance to 4585 sex pheromone of, role in mating of 1004
                                                                                                                                                                                                                                                                               Oidaematophorus monodactylus on, and biological control using, in Virginia
                                                                                                                                                                                                                                                                                        3353
                                                                                                                                                                                                                                                                       Camaratoscena subrubescens
in Turkey 1310
on Populus, in Turkey 1310
Camaromyia bullans
in Turkey 1311
on Xanthium spinosum, in Turkey 1311
cambelli, Axiagastus
Camellia sinensis (see Tea)
                 5334
        eyes in, fluorescent substances in 2213
       hemolymph in, amino acids in 1212 wing-beat frequency of, measuring of 1846
                                                                                                                                           sterilisation of, \gamma-irradiation for 770 taxonomy of 5294
                                                                                                                                    Callosobruchus phaseoli, in Psophocarpus
tetragonolobus seeds, resistance to 52
Callosobruchus rhodesianus
 Calliphoridae
       in safflower fields, in Victoria 6556
on brussels sprouts, pollination by 4578
preyed on by, Corvus frugilegus, in New
Zealand 2919
                                                                                                                                           in Swaziland 4662
                                                                                                                                                                                                                                                                         Cameraria
                                                                                                                                           in Psophocarpus tetragonolobus seeds, resistance to 5222
                                                                                                                                                                                                                                                                              on Quercus nigra, in Florida 6627 predation of 6627
 Callipogon barbatum
in Honduras 6126
on orange, in Honduras 6126
Calliptamus italicus italicus, in USSR 4956
                                                                                                                                      Callosobruchus subinnotatus, biology of
                                                                                                                                              6644
                                                                                                                                                                                                                                                                               Distantiella theobroma in, on cacao 583,
                                                                                                                                     callosus, Phlyctinus
callosus, Sitona
                                                                                                                                                                                                                                                                                       4078
                                                                                                                                                                                                                                                                               locust control in 5899
 Callirhopalus bifasciatus
descriptions of 5135
food-plants of 5135
on Ligustrum ovalifolium, oviposition by
1058
                                                                                                                                     callosus, Sphenophorus
Calluna vulgaris
                                                                                                                                                                                                                                                                               oil palm in, insect pollinators of 1437
                                                                                                                                                                                                                                                                               plant protection in 3238
Sahlbergella singularis in, on cacao 583,
4078
                                                                                                                                            Lochmaea suturalis on
                                                                                                                                                 in France 279
in Netherlands 5772
                                                                                                                                                                                                                                                                        camerunensis, Aphidius
camerunus, Lixus
Camula pellucida
control of, biological 929
in Canada 929
                                                                                                                                     Calocoris angustatus
biology of 6352
control of 6352
 Callirhytis, on Quercus robur, in Poland 3082
 Callosobruchus
in India 4197
                                                                                                                                           in India 6352
```

on sorghum, in India 6352

1 3		711
Campesterol (see Ergost-5-en-3-ol, (3β,24R)-)	Campoplex xanthostomus contd.	capensana, Tortrix
ampestris, Euxoa	in Egypt 836 parasitising, Heliothis armigera 836	capensis, Pachypasa capitata, Ceratitis
ampestris, Gryllus	Campsis, Callirhopalus bifasciatus on 5135	capitis, Zatropis
ampestris, Neophilaenus	Campsomeris, parasitising, Cochliotis	capito, Locusta migratoria
Camphene (see Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene-)	melolonthoides, in Tanzania 1384 Camptozygum aequale	Capnodis tenebrionis control of 2791
Campoletis argentifrons	in Canada 2069	insecticides for 3996
in USA 3379	on Pinus banksiana, in Canada 2069	in Morocco 3996
parasitising, Agrotis ipsilon, in Indiana	Campylomma, preying on, Trialeurodes vaporariorum, in Japan 6552	in USSR 2791 on cherry, in Morocco 3996
Campoletis chlorideae	Campylomma nicolasi, in Egypt 4358	capparidis, Coccus
development in, effects of temperature on 1828	Campylomma verbasci	Capparis spinosa, Anaphaeis aurota on, in
parasitising, Heliothis armigera 1828	in Canada 1977 in Poland 3475	Qatar 6128 Caprithrips, taxonomy of 6027
Campoletis flavicincta	on apple, in Nova Scotia 1977	Capsella bursa-pastoris
in India 5679 parasitising, <i>Heliothis armigera</i> , in	preying on aphids, in Poland 3475	Bathyplectes curculionis on, nectar-feedin by 6243
Karnataka 5679	mites, in Poland 3475	Myzus persicae on, development of 396
Campoletis perdistincta (see C. flavicincta) Campoletis sonorensis	Panonychus ulmi 3475	Capsicum
in USA 2041	cana, Orgyia Canada (see also individual Provinces and	aphid control on 5708 Chrysodeixis chalcites on, in Netherlands
insecticides in, toxicity of 4069	Territories)	423
parasitising Heliothis virescens 2341, 3691	agricultural entomology in 5999 Arctium lappa in, natural enemies of	Dacus dorsalis on, in Malaysia 2502 insect pests of
in North Carolina 2041	6338	in Assam 4142
Vairimorpha necatrix in, not infective 2041	A. minus in, natural enemies of 6338	in Quebec 269
virus-like particles in, transmission to	arthropod pests in 2792 Athous spp. in 17	Myzus persicae on in Bulgaria 1462
hosts of 2341	Betula spp. in, insect pests of 5150	in Netherlands 3808
viruses in, reducing host growth rate 3691	biological control in 3185 Chrysididae in 6317	Ostrinia nubilalis on, in Ontario 4053 pest control on
Camponotus	Cupedidae in 2556	biological 475, 6691
Dufour's gland in, secretion of 3744	Hymenoptera in, book 3309, 3310, 6123	insecticides for 1695
food exchange in, studying of 1337 in South Africa 557	insects in, book 6005 Lymantriidae in, book 5284	Polyphagotarsonemus latus on, damage caused by 5117
preying on	pest control in, cost of 4700	Scirtothrips dorsalis on
Nephotettix nigropictus, in Karnataka	Philodromidae in 2816 Platypodidae in 2555	in India 5468 in Maharashtra 6554
Nilaparvata lugens, in Karnataka 886	Staphylinidae in, book 2668	Tetranychus urticae on, in Netherlands
Orgyia pseudotsugata 2560	Thomisidae in 2816	193 Theirs taken on in Notherlands 202
taxonomy of 6021 Camponotus compressus	weeds in, arthropod enemies of 3354 canadensis, Polistes	Thrips tabaci on, in Netherlands 202 Capsicum annuum
clypeus in 6289	L-Canaline (see L-Homoserine, O-amino-)	Heliothis armigera on, in Maharashtra
epistomal sulcus in 6289 Zamponotus ligniperda, cocoons of,	Canary Islands Carabidae in 1307	2503 monocrotophos in, residues of 6553
responses of Formica polyctena to 2328	Herpisticus hierrensis in, on Euphorbia 9	Myzus persicae on
amponotus noveboracensis	Canavanine (see L-Homoserine, O-	in Argentina 5709
in USA 4633 tending, <i>Kermes kingii</i> , in Michigan	[(aminoiminomethyl)amino]-) cancellata, Schistocerca	in Tamil Nadu 5118 Otiorhynchus cribricollis on, in Italy 993
4633	Cancer (see Neoplasms)	Scirtothrips dorsalis on, in Karnataka
Camponotus rufipes, hemocytes in 2808 Camponotus sericeus	Cancer magister, hyperglycemic hormone in 2713	6553 Thrips tabaci on, in Netherlands 1634
in Nigeria 6514	Candida guilliermondi, in, Galleria	Trialeurodes vaporariorum on
preying on, Maruca testulalis, in Nigeria	mellonella, effects of antibiotics on	development of 196, 197, 198
6514 Zamponotus vagus, food exchange in,	5850 Candida krusei, in, Galleria mellonella,	feeding preferences of 195 parasitism of 199
studying of 1337	effects of antibiotics on 5850	virus control in, vector control for 5709
Campoplex borealis in Finland 3860	candida, Psylla Candida utilis	Capsicum annuum (dried fruit) Aspergillus flavus in, in India 4655
in Poland 2952	diet component for	Sitotroga cerealella in, in India 4655
parasitising, Coleophora spp., in Poland	Anastrepha ludens 1666	Tribolium castaneum in, in India 4655
2952 Zampoplex cursitans	Ceratitis capitata 3747 Chrysopa carnea 169	T. confusum in, in India 4655 Capsicum annuum (stored fruit), pest control
biology of 3597	candyae, Apion	in, fumigants for 1615
cleptoparasitism by 3597 in Denmark 3597	canescens, Nemeritis (see Venturia canescens)	Capsicum (stored fruit), fumigants in, residues of 1121
parasitised by, Mesochorus sylvarum, in	canescens, Venturia (Nemeritis)	capsiformis, Nabis (see Tropiconabis
Denmark 3597	canicosta, Symmerista	capsiformis)
parasitising, Epinotia tedella, in Denmark 3597	canicularis, Tibicen canidia, Artogeia (Pieris)	capsiformis, Tropiconabis (Nabis) Captan (3a,4,7,7a-tetrahydro-2-
seasonal abundance of 3597	canidia, Pieris (see Artogeia canidia)	[(trichloromethyl)thio]-1H-isoindole-
ampoplex frustranae	Canis familiaris (see Dog) Cannabinoids, Pieris brassicae for	1,3(2H)-dione) against, <i>Panonychus ulmi</i> , on apple 6233
emergence in 1567 in USA 1567	distinguishing 6344	in apple, residues of 3209
parasitising, Rhyacionia frustrana, in	Cannabis sativa (see Hemp)	in Entomophthora obscura, toxicity of
Georgia (USA) 1567 Campoplex homonae	Cannibalism Agrotis segetum 6097	4136 in foodstuffs, residues of 3210
in Japan 3056	Chilo auricilius 862	with insecticides, against, pests and
parasitising, Homona magnanima, in	Dermestes peruvianus 785 Epilachna varivestis 6189	diseases of Chrysanthemum 4613 Capua, taxonomy of 3596
Japan 3056 Campoplex multicinctus	Gryllodes sigillatus 1782	Capua reticulana (see Adoxophyes orana)
in Poland 2952	Henosepilachna vigintioctopunctata 3017	capucinus, Bostrichus
parasitising, <i>Coleophora</i> spp., in Poland 2952	Lixus camerunus 2986 Phyllonorycter ringoniella 1457	Capys, in southern Africa 18 Capys alphaeus, subspeciation in 18
Campoplex phthorimaeae	Cantaloupe (see Melon (cantaloupe and	Carabidae
in USA 2501	musk)) Cantharidae, in woodland, in Czechoslovakia	activity in 4836 conference on 3338
parasitising, Keiferia lycopersicella, in California 2501	5201	in Czechoslovakia 4862
Campoplex rothii, in Finland 3860	canus, Limonius	in Denmark 1842
Campoplex xanthostomus biology of 836	Cape Verde arthropod pests in 137	in Kuwait 1837 in New Brunswick 5409
hosts of, defence mechanisms of 836	plant protection in 3238	in Quebec, bibliography 6733

in Soviet Far East 150	2-(diethylamino)-4-nitrophenyl ester,	against contd.
in Spain 1843	against, aphids 661	Chilo contd.
in apple orchards, in Ontario 957 in cabbage fields, effects of cover crops on	1-[(dimethylamino)carbonyl]-5-methyl-1 <i>H</i> - pyrazol-3-yl ester (see Dimetilan)	C. polychrysus, on rice 2376 Choristoneura occidentalis, on
5928, 6506	2-(dimethylamino)-5,6-dimethyl-4-	Pseudotsuga 3707
in Ceutorhynchus galls on rape, in Poland	pyrimidinyl ester (see Pirimicarb)	Cnaphalocrocis medinalis, on rice
2469	Carbamic acid, [[4-(1,1-dimethylethyl)-2-	3926, 5557
in crop fields, effects of insecticides on 2462	methylphenyl]thio]methyl- 2-(1-methylethoxy)phenyl ester	Contarinia sorghicola, on sorghum 5574, 6428
in forests	in Apis mellifera	Cydia molesta, on peach 2966
in Poland 3605	penetration of 2139 metabolism of 2139	Cynthia cardui, on soyabean 6198 Dacus cucurbitae 1500
in Quebec 4836 in maize fields	in Musca domestica	on Cucumis utilissimus 5663
in Iowa 1394	penetration of 2139	Diacrisia obliqua, on sugar-beet 5684
in West Germany 6357	metabolism of 2139 Carbamic acid, (hydroxymethyl)-, 2-(1-	Dichocrocis punctiferalis on cardamom 283
in mixed forests, in Ontario 136	methylethoxy)phenyl ester, in	on castor 2506
in oak forests, in Michigan 5198 in pastures, effects of grazing on 3435	Nephotettix cincticeps, propoxur	on mulberry 378
in rye fields, in West Germany 6357	metabolite 2721 Carbamic acid, methyl-	Dicladispa armigera, on rice 6373 Diparopsis watersi, on cotton 4885
in sugar-beet fields, effects of insecticides	3-methylphenyl ester	Diprionidae, on Pinus 5741
on 3823 in tobacco plantations, effects of	against	Earias spp., on okra 1492, 4017
insecticides on 6261	Nilaparvata lugens 6719 on rice 3951	Empoasca fabae, on soyabean 6197 Epilachna varivestis, on soyabean 6194
in urban areas, in West Germany 2745	Sogatella furcifera 6719	Eriosoma lanigerum 5885
in wheat fields	resistance to, in, Nilaparvata lugens, in Taiwan 3906, 5568	on apple 5071 Eublemma amabilis 1350
effects of burning of stubble on 2889 in Yugoslavia 2869	with phenthoate	Euproctis chrysorrhoea, on Rubus 668
Laboulbeniales in, in Taiwan 1129	against	E. fraterna, on plum 2447
mites on, in Ontario 136 movement detectors for 176	Nilaparvata lugens, on rice 3407 Sogatella furcifera, on rice 6407	E. melania 3798 Eurygaster integriceps, on wheat 872
phenology of 4836	in rice-fields	Exelastis atomosa, on Cajanus cajan
preyed on by, Diogmites missouriensis, in	effects on predatory insects of	6525
Arkansas 2336 preying on	3407 non-target effects of 6407	Gryllodes sigillatus 6711 Heliothis armigera
Achatina fulica 4983	Carbamic acid, (3-methylphenyl)-, 3-	on Cajanus cajan 6525
Delia brassicae, in Irish Republic 5928	[(methoxycarbonyl)amino]phenyl ester	on Cicer arietinum 3012, 5679
grain aphids, in England 5025 Oulema spp., in USSR 1386	(see Phenmedipham) Carbamic acid, [1,2-phenylenebis(iminocarb-	on cotton 4885 on <i>Lablab purpureus</i> 426
traps for 4874	onothioyl)]bis-, dimethyl ester (see	on sunflower 6557
Carabus, biology of 6689 Carabus auratus	Thiophanate-methyl) Carbamodithioic acid,	on tomato 6550 Hellula undalis, on cabbage 5650
in France 6305	(hydroxymethyl)methyl-	Hercinothrips bicinctus, on banana
Ramicephalus hirsutus in, in France	potassium salt	988
6305 Carabus auronitens festivus	against, Aspergillus niger, in insect rearing media 3324	Hydrellia philippina, on rice 3954 Hypera postica, on lucerne 4927
in France 6305	in Heliothis virescens, toxicity of 3324	Irenimus compressus, on black currant
Ramicephalus hirsutus in, in France	Carbamodithioic acid, methyl- (see Metham)	6720
6305 Carabus nemoralis, Ramicephalus hirsutus	Carbamothioic acid, S,S'-[2-(dimethylamino)-1,3-propanediyl] ester (see Cartap)	Leptinotarsa decemlineata, on potato 5692, 5700
in 6305	Carbamoyltransferase, ornithine	Leptocorisa acuta, on rice 6381
Carabus yaconinus, actograph for 3320	in Antheraea mylitta eggs, not found	Leucinodes orbonalis, on eggplant
Carapa guianensis Hypsipyla ferrealis on, damage caused by	in Samia cynthia fat-body, not found	1538, 5705 Locusta migratoria 2315
1075	4472	Loxostege sticticalis 6700
H. grandella on, damage caused by 1075 Carausius morosus	Carbaryl (1-naphthalenyl methylcarbamate)	Lymantria dispar, on Quercus 3100
antennae in, sensilla on 3275	against Achaea janata, on castor 3033, 5710,	Maruca testulalis on Cajanus cajan 6525
enzymes in 2689	5711	on Vigna radiata 431
insecticides in, effects on neurosecretory system of 2633	Adisura atkinsoni, on Lablab purpureus 426	on Vigna unguiculata 455 Megalurothrips sjostedti, on Vigna
kynurenic acid in, excretion of 3738	Aelia rostrata, on grain crops 3366	unguiculata 455
leg coordination in, model 4837	Agrotis ipsilon 6168	Melanagromyza obtusa, on Cajanus
lindane in, effects on neurosecretory system of 1703	Amrasca biguttula on castor 5710	cajan 6525 Myllocerus discolor 3048
ommochromes in, synthesis of 3738	on cotton 5719, 6561	Mythimna unipuncta, on sorghum
ovarian production in, regulation of 3737 oviposition in 2706	A. devastans, on okra 1492, 4017 Amyelois transitella, on almond 3994	2915 Nilaparvata lugens 6719
Caraway (Carum carvi)	Anthonomus pomorum, on apple 6465	on rice 3951, 3959, 5555, 5564
insecticidal activity of oil from 6173	A. rubi, on strawberry 6448	Nipaecoccus filamentosus, on
repellent activity of oil from 6173 Carayonocoris indicus	Anticarsia gemmatalis, on soyabean 3007	pomegranate 4009 Ochropleura herculea, on maize 3377
biology of 5468	Antigastra catalaunalis, on sesame	Oebalus insularis, on rice 2299
descriptions of 5468	1032, 4055	Opogona sacchari, on banana 6498
in India 5468 preying on, Thysanoptera, in India 5468	Aphis gossypii on cotton 6563	Orgyia pseudotsugata 2071 on Pseudotsuga 2072
Carbamic acid, 1H-benzimidazol-2-yl-,	on okra 1492	Orseolia oryzae, on rice 3947
methyl ester (see Carbendazim)	Argyroploce leucaspis, on Litchi	Paraclemensia acerifoliella, on Acer
Carbamic acid, [1-[(butylamino)carbonyl]- 1H-benzimidazol-2-yl]-, methyl ester (see	chinensis 6497 Atherigona approximata, on Pennisetum	4105 Pectinophora gossypiella, on cotton
Benomyl)	americanum 1928	4068, 6561, 6564
Carbamic acid, (4-chlorophenyl)-, 1-methyl- 2-propynyl ester, against, Spodoptera	Austroasca alfalfae, on lucerne 3447 A. viridigrisea, on lucerne 3447	Peridroma saucia, on grapevine 944 pests of lucerne 5048
littoralis 4378	Blissus leucopterus, on sorghum 6169	Phyllotreta spp., on cabbage 3512
Carbamic acid, [(dibutylamino)thio]methyl-	Callosobruchus chinensis, in Vigna	Plathypena scabra, on soyabean 6197
2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester	radiata seeds 433 Carpophilus lugubris, on maize 4899	Platypleura kaempferi, on loquat 6478 Plusia spp., on soyabean 3007
against	Carvalhoia arecae, on Areca catechu	pod borers, on Cajanus cajan 6524
Nilaparvata lugens, on rice 339	6446	Polyphagotarsonemus latus, on
stem borers, on rice 3968 in rice, reducing reproduction by	Chilo partellus on maize 2365	Phaseolus vulgaris 1008 Pyrilla perpusilla, on sugar-cane 3879,
Nilaparvata lugens 3928	on sorghum 1416, 2915	5515

or trailers

ice 5035

5555 cotton ice 2376

371 m 2404;

> > 4158

doject mach	
arbaryl contd.	Carbaryl contd.
against contd.	in Trifolium, toxicity of 6700
Rhinyptia laeviceps 5263	in vineyards, not affecting predatory
Rhyzopertha dominica, in stored grain	insects 5059
3635, 4666	on Pseudotsuga menziesii, effects of rain
Saissetia oleae, on olive 986	on 2072
Scirpophaga incertulas, on rice 2376	with Bacillus thuringiensis
Sitobion avenae, on grain crops 6349	against
Sogatella furcifera 6719	Hyphantria cunea 5847
on rice 3931	Orgyia gonostigma, on fruit trees
Spodoptera exigua, on potato 3020	3464
S. frugiperda 5265	antagonistic 668
on Cynodon dactylon 1423	with chlorpyrifos, against, Spodoptera
S. littoralis 2634 S. litura 3222	littoralis 225 with DDT
on spice plants 3874	against
on tobacco 3050	Attagenus unicolor, in tractor trailer
Sylepta derogata, on cotton 2538	3126
Thrips tabaci	Tribolium confusum, in tractor
on cotton 5127	trailers 3126
on onion 5697	Trogoderma inclusum, in tractor
Thymelicus lineola	trailers 3126
on grasses 6245	with diflubenzuron, against, Euproctis
on Phleum 3978	melania 3798
Typhlocyba pomaria, on apple 6468	with HCH
Xestia c-nigrum, on grapevine 944	against
Xyleborus dispar, on hazel 6455 Zabrus tenebrioides, on wheat 2362	Contarinia sorghicola, on sorghum 6428
Zygina maculifrons, on rice 336	Scirpophaga incertulas, on rice 503
agroavailability of 5700	with lindane
agroavailability of 5700 determination of 5971	against
in almond orchards, effects on predatory	Amrasca devastans, on cotton 2543
mites of 3994	Carvalhoia arecae, on Areca catechu
in Apis mellifera, toxicity of 678	6446
in apple orchards	Chilo partellus
effects on mites of 6468	on maize 2365
non-target effects of 381	on sorghum 5573
in banana, residues of 184	C. polychrysus, on rice 2376
in Cales noacki, toxicity of 3493	Earias insulana, on cotton 2543 E. vittella, on cotton 2543
in Carausius morosus, effects on neurosecretory system of 2633	E. vittella, on cotton 2543 Loxostege sticticalis 6700
in Chrysopa boninensis, toxicity of 3041	Nilaparvata lugens, on rice 5555
in Cicer arietinum, residues of 3012	Pectinophora gossypiella, on cotton
in citrus groves, exposure of agricultural	2543
workers to 4160	Scirpophaga incertulas, on rice 237
in Coccinella undecimpunctata, toxicity of	in sunflower, toxicity of 6700
2634	with malathion
in coffee, not toxic 6579	against
in Corcyra cephalonica, effects on	Leucinodes orbonalis, on eggplant
parasites of 2343	5705
in cotton, effects of rain on 5719	pests of soyabean 459
in cottonseed, residues of 2547 in cucumber, toxicity of 6700	with molasses 283, 3879, 3947, 3954, 4105, 4885, 6381
in Cucumis utilissimus, residues of 5663	in Vigna unguiculata, toxicity of 455
in Diabrotica virgifera, sublethal effects of	with oil emulsion, against, Saissetia oleae,
5978	on olive 986
in Dysdercus koenigii, effects on lipids in	with phosfolan
neurosecretory system of 5976	against, Spodoptera littoralis 225
in foodstuffs, residues of 3210	antagonistic 225
in Gryllodes sigillatus, effects of crowding	with toxaphene, against, Spodoptera
on susceptibility to 6711 in <i>Ilex crenata</i> , effects on mites of 4917	littoralis 225
in lemon, residues of 4160	with trichlorphon, against, Spodoptera cilium, on Cynodon 3444
in lucerne, toxicity of 6700	Carbendazim (methyl 1H-benzimidazol-2-
in lucerne fields, effects on pollinators of	ylcarbamate)
5048	in Entomophthora obscura, toxicity of
in Lymantria dispar, not affecting	4136
parasites 4926	Carbetovur (see Malathion)
in oak woodland, effects on parasitic	Carbetox (see Malathion)
insects of 3100	Carbicron (see Dicrotophos)
in onion, residues of 5697	Carbofuran (2,3-dihydro-2,2-dimethyl-7-
in Opius concolor, toxicity of 205	benzofuranyl methylcarbamate)
in orange, residues of 4160 in Orgyia pseudotsugata, role of esterase	Aceria tulipae, on wheat 5529
isoenzymes in susceptibility to 2641	Agromyzidae, on Vigna radiata 445
in Peridroma saucia, effects of food-plant	Amrasca biguttula, on potato 2494,
on susceptibility to 4785	2495
in potato, persistence of 5692	A. devastans, on cotton 2038, 2543
in Prospaltella lahorensis, toxicity of	Anthonomus signatus, on strawberry
3491	364
in Rhinyptia laeviceps, sex differences in	aphids, on tobacco 3560
susceptibility to 5263	Aphis fabae, on sugar-beet 1871 Atherigona soccata, on sorghum 2404
in rice, not affecting germination 3905	Atherigona soccata, on sorghum 2404 2915, 5041
in soil degradation of 5986	Bemisia tabaci, on cotton 2038
persistence of 3227	Blissus leucopterus, on sorghum 6169
residues of 5697	Busseola fusca, on maize 3888
in soyabean, residues of 1521	Caliothrips indicus, on potato 2494
in soyabean fields, effects on predatory	Chilo spp., on rice 6411
insects of 6194	C. infuscatellus, on sugar-cane 1371
in sunflower, toxicity of 6700	C. partellus
in Trichogramma brasiliensis, toxicity of	on maize 1924, 2365, 2896
2343	on sorghum 5573

```
Carbofuran contd.
   against contd.
       Chilo contd.
       C. suppressalis 1148
           on rice 3901
       Cnaphalocrocis medinalis, on rice
       Coccus viridis, on mandarin 5634
       Cryptoblabes gnidiella, on Azolla 858
Cyclocephala parallela, on Cynodon 3445
       Diabrotica spp. 6253
Dicladispa armigera, on rice 5561
       Earias insulana, on cotton 2543

E. vittella, on cotton 2543

Elasmopalpus lignosellus, on groundnut
             3528
       Eldana saccharina, on maize
       Epitrix spp., on tomato 3541
       Epithx spp., on tomato 3341
Eurygaster integriceps, on wheat 8
Euscyrtus concinnus, on rice 901
Geococcus coffeae, on coffee 1055
Graphognathus peregrinus 2639
Hydrellia spp., on rice 2372, 3960
H. philippina, on rice 4509, 5034, 6396
       Inopus rubriceps, in pastures 5865
Leptinotarsa decemlineata, on tomato
             3541
       Leucinodes orbonalis, on eggplant
       Lipaphis erysimi, on rape 1999
Lygus lineolaris, on strawberry 364
       Melanagromyza spp., on Vigna radiata
            439
        Musca domestica 1142, 3884
       Myllocerus undecimpustulatus 6565
       Mythimna unipuncta, on maize 4900
       Myzus persicae
on Capsicum 5118
on potato 2494, 2495, 6233
Nephotettix virescens, on rice 1406
Nilaparvata lugens 3397
on rice 3395, 3399, 3410, 3951, 3959, 3960, 3961, 3970, 5555, 5563, 5564
Nymphula denunctalis, on rice 2377
       Nymphula depunctalis, on rice 2372
       N. responsalis, on Azolla 858
       Ophiomyia phaseoli
           on Phaseolus vulgaris
                                                2479
       on Vigna unguiculata 2479
Orseolia oryzae, on rice 2379, 3947
       Oscinella frit, on maize
                                                5536
       Ostrinia nubilalis
           on maize 878
on potato 6537
       Otiorĥynchus sulcatus, on strawberry
215
       Pectinophora gossypiella, on cotton 2543
       Pegomya hyoscyami, on sugar-beet 1871
       Pempherulus affinis, on cotton 2537
       pests of Azolla 278
       pests of cassava 102
pests of maize 5537
pests of rice 2902
                                   1023
       pests of sugar-beet 1523, 5537
pests of tobacco 4609
Phyllophaga spp., on maize 4506
Phyllotreta spp., on rape 3813
Psylliodes chrysocephalus, on rape
             3813
       Rhizoecus nemoralis, on coffee 1055
Scirpophaga incertulas, on rice 2379,
4509
       Sesamia nonagrioides, on maize 3888
Sogatella furcifera, on rice 3931
       soil pests 1862
       Sphenophorus callosus, on maize 2897
       Spodoptera frugiperda 5265
S. littoralis 2634
on cotton 4385
       stem borers, on rice 3968
       Stomopteryx subsecivella, on groundnut 6526
   Thrips tabaci, on cotton 2038
Thymelicus lineola, on Phleum 3978
application methods for 4509
   environmental quality as affected by
         4162
   in Acalymma vittatum, detoxification of
```

Tetranychus piercei on, in Taiwan 705
Carica papaya (stored fruit)
1,2-dibromoethane in, residues of 3142
fumigants in, residues of 1121
pest control in

pest control in fumigants for 1615 fumigation for 3142 Carinodes, parasitising, Trachea anguliplaga, in Brazil 1908 carlinianus, Aerochoreutes Carmichaelia, Anisoplaca ptyoptera on, in New Zealand 5890

on 4401

4401

in Vigna unguiculata, effects on Aphis craccivora of 4340 in wheat grain, effects of insecticides on

```
Carbofuran contd.
                                                                                         Carbohydrates contd.
                                                                                                                                                                                   Cardamom, lesser (see Elettaria
    in Azolla, not toxic 278
                                                                                              hexosans, in Neotermes bosei diet,
                                                                                                                                                                                         cardamomum)
                                                                                                    digestion of 6329
                                                                                                                                                                                   cardamomi, Sciothrips (Taeniothrips) cardamomi, Taeniothrips (see Sciothrips
    in Coccinella undecimpunctata, toxicity of
                                                                                          Carbon, in Pinus sylvestris, utilisation by
          2634
    in cotton-field soil, persistence of 2543 in Diabrotica, detoxification of 4158
                                                                                                Neodiprion sertifer of 5756
                                                                                                                                                                                         cardamomi)
                                                                                                                                                                                    Cardaria draba, Myzus persicae on, development of 396
                                                                                          Carbon dioxide
    in Diabrotica virgifera, sublethal effects of
                                                                                              against
                                                                                                                                                                                  cardinalis, Dysdercus
Cardiochiles nigriceps
in USA 2041, 3561
parasitising
Heliothis virescens
in North Carolina 2041
in South Carolina 3561
Vaciente paratrix in, not i
                                                                                                  pests of stored grain 1116
pests of wheat grain 2096, 3134, 4661
    in Folsomia candida, effects of 212
    in grassland, effects on insect fauna of
                                                                                                  Rhyzopertha dominica, in wheat grain 5225
                                                                                                  Sitophilus oryzae, in wheat grain 5225
    in grassland soil, residues of 213
    in maize
                                                                                              in Bombyx mori, mechanism of anesthesia
                                                                                                    with 5254
         persistence of 2896
                                                                                                                                                                                        Vairimorpha necatrix in, not infective
        toxicity of 5537
                                                                                              in Ephestia cautella
         uptake and translocation of 878
                                                                                                  effects on triglyceride metabolism of
                                                                                                                                                                                   Cardiochiles philippinensis
in Philippines 904
    in Musca domestica, effects of atrazine on fate of 3884
                                                                                                        2605
                                                                                                                                                                                        in Philippines
                                                                                              toxicity of 6706 in Ephestia kuehniella, toxicity of 6706
                                                                                                                                                                                        parasitising, Cnaphalocrocis medinalis, in
Philippines 904
    in Nilaparvata lugens, poisoning by in potato, effects on composition of
                                                                                              in Locusta migratoria
                                                                                                                                                                                   Cardiolipins, in grain mites 3755 cardo, Pachymerus cardoni, Micraspis
    in Pterostichus chalcites, toxicity of 1394
                                                                                                  effects on fecundity of 1328
                                                                                                  effects on moulting hormones of 2220
    in rice
        fate of 3917
                                                                                                                                                                                   Cardoon (see Cynara cardunculus)
cardui, Cynthia (Vanessa)
cardui, Urophora
cardui, Vanessa (see Cynthia cardui)
                                                                                              in Sitophilus granarius, development of resistance to 4149
        not affecting germination 3905
persistence of 3907
residues of 2902
                                                                                              in Trogoderma granarium, toxicity of 6655
                                                                                         Psila rosac responses to 4172
Carbon disulfide
against, Tribolium castaneum 36
in wheat grain, residues of 3114
with 1,2-dichloroethane, and
                                                                                                                                                                                    carduorum, Altica
    in rice-fields
        causing outbreaks of Nilaparvata lugens 3389
                                                                                                                                                                                    Carduus
                                                                                                                                                                                       Ceuthorhynchidius horridus on, and
biological control using, in Virginia
1362
        effects on fish of 3903
    non-target effects of 6411
in rice grain, residues of 3904
                                                                                         with 1,2-dichioroctuane, and tetrachloromethane, against, pests of wheat grain 3114
with tetrachloromethane, against, pests of stored grain 3636
Carbon tetrachloride (see Methane,
                                                                                                                                                                                   1362
control of, biological, review 5505
Lema cyanella on, feeding by 1904
Carduus acanthoides
Ceuthorhynchidius horridus on
and biological control using
in Quebec 4483
in Virginia 275
Ceutorhynchus trimaculatus on,
development of 5010
Rhinocyllus conicus on, and biological
control using, in Quebec 4483
    in soil
        effects of 2141
fate of 3917
   fate of 3917
microbial degradation of 6252
in sugar-beet, toxicity of 5537
in tobacco plantations, effects on
predatory insects of 4609, 4934, 6261
in tomato, toxicity of 3541
resistance to, in, Nilaparvata lugens, in
Philippines 3398, 3410, 4509
with agricultural chemicals, compatibility
of 4162
with disuffects in tobacco plantations
                                                                                                tetrachloro-)
                                                                                         Carbonate, hydrogen, in Locusta migratoria, stimulating adenosine triphosphatase activity 2193
                                                                                          Carbonic acid, 1-methylethyl 2-(1-
                                                                                                                                                                                    control using, in Quebec 4483

Carduus macrocephalus, Curculionidae on, identifying of 2347
                                                                                                methylpropyl)-4,6-dinitrophenyl ester (see Dinobuton)
                                                                                          Carbophenothion (S-[[(4-chlorophenyl)thio]methyl] O,O-diethyl
    with disulfoton, in tobacco plantations effects on predatory insects of 49
                                                                                                                                                                                    Carduus nutans
                                                                                                phosphorodithioate)
                                                                                                                                                                                        Ceuthorhynchidius horridus on
with insect growth regulators 4385
Carbofuran, 3-hydroxy- (see 3,7-
Benzofurandiol, 2,3-dihydro-2,2-
                                                                                                                                                                                            and biological control using
in New Zealand 3872
in Virginia 275
                                                                                              against
                                                                                                  Contarinia sorghicola, on sorghum
                                                                                                        5574
                                                                                                                                                                                        Ceutorhynchus trimaculatus on,
development of 5010
      dimethyl-, 7-(methylcarbamate))
                                                                                                  Delia brassicae, on radish 5097
Carbohydrase
in Schistocerea gregaria gut
effects of microorganisms on
effects of pH on activity of
effects of starvation on 43
                                                                                                                                                                                  development of 5010
Rhinocyllus conicus on
and biological control using
in Montana 4479
in New Zealand 3872
in North America 5505
in Ontario 5501
in Quebec 4483
effects of herbicides on 853
Carduus pycnocephalus, Saissetia oleae on,
in Greece 5640
Carduus thoermeri, Curculionidae on,
identifying of 2347
Carebara, preying on, Isoptera 5361
Carebara silvestrii
in Ghana 5361
swarming in 5361
                                                                                                  Tetranychus urticae 6716
                                                                                              with oil emulsion
                                                                                             in parasitic insects, toxicity of 5631 in predatory insects, toxicity of 5631 with phosmet, in Cales noacki, toxicity of 3493
Carbohydrates
                                                                                         Carbophos (see Malathion)
Carbovis (see Carbaryl)
Carboxylase, acetyl coenzyme A, in Ceratitis
capitata larvae, regulation by dietary
fatty acids of 6051
Carboxylesterase (see Esterase, carboxyl)
    in Acheta domesticus, metabolism of 3256
    in Acromyrmex octospinosus, reserves of
          1874
    in Bombyx mori diet, requirement for
          2698
    in Dysdercus cingulatus, effects of antibiotics on 3190
                                                                                          Carcelia
                                                                                              parasitised by, Brachymeria jambolana, in
Bangladesh 6325
    in eggplant, effects of Urentius sentis on 1537
                                                                                              parasitising, Orgyia postica, in Bangladesh
                                                                                                    6325
                                                                                                                                                                                        swarming in
    in Galleria mellonella hemolymph, effects
          of temperature on 1803
                                                                                          Carcelia corvinoides
                                                                                                                                                                                    caribbeana, Forcipomyia
                                                                                                                                                                                   Carica papaya
arthropod pests of, in Gambia 4182
Dacus dorsalis on, development of
Diacrisia obliqua on, development of
    in Hydrous triangularis neurosecretory
                                                                                              encapsulation by host of 291 parasitising, Chilo auricilius 291
          system 2211
    in lentils, effects of insecticides on 4401
                                                                                          Carcelia illota
    in Leptinotarsa decemlineata fat-body,
changes in reserves of 5316
                                                                                              in India 3418
                                                                                              parasitising, Heliothis armigera, in India 3418
                                                                                                                                                                                             1820
    in lucerne, effects of aphids on 5879
                                                                                                                                                                                       Panonychus citri on, in West Bengal 410
papaw ringspot virus in, in Taiwan 1998
Schistocerca gregaria on, morphology of
3832
    in maize grain, effects of Sitophilus oryzae on 4124
                                                                                          Carcelia lucorum
                                                                                             diflubenzuron in, toxicity of 4642 in France 4642
    in Phaseolus, effects on Aphis craccivora of 4340
                                                                                              parasitising, Lymantria dispar, in France 4642
                                                                                                                                                                                        Tenuipalpus muguanicus on, in China 6442
   of 4340
in Phaseolus vulgaris seeds, effects of insecticides on 4401
in Samia cynthia larvae, metabolism during moulting of 3254
in Sesamia cretica, effects of growth regulators on 761
in Teleogryllus mitratus, during ovarian and embryonic development 2718
in Vicia faba seeds, effects of insecticides on 4401
```

Carcelia separata in Poland 3592

acids in 1212

glucosinolates in 282

Cardamine amara

parasitising, Lymantria dispar, in Poland

Carcinophoridae, in Africa, book 3243 Carcinops pumilio, in poultry houses 1614 Carcinus maenas, hemolymph in, amino

Phyllotreta armoraciae on, not feeding

Cardamom, pests of, in Karnataka 4183

Subject Index		921
Carnation (Dianthus caryophyllus)	Carposina niponensis	Carulaspis visci contd.
Epichoristodes acerbella on	attractants for 6458	taxonomy of, Carulaspis juniperi
damage caused by 501	in Japan 6458	misidentified as, in New Zealand
development of 507 pest control on, tetranactin for 6714	Carrageenan, in Lymantria dispar diet, effects on virus production of 4935	2083
Carnation necrotic fleck virus 4690	Carrot (Daucus carota)	Carum carvi (see Caraway) Carum copticum, Spodoptera litura on, in
carnea, Chrysopa (Chrysoperla)	Agrotis segetum on, in Denmark 6531	Andhra Pradesh 3874
carnea, Chrysoperla (see Chrysopa carnea)	aldrin in, uptake from soil of 5680	Carvalhoia arecae
carneola, Lithacodia	aster yellows, causal agent in, resistance to	control of, insecticides for 6446
Carnitine (see 1-Propanaminium, 3-carboxy-	6228	in India 6446
2-hydroxy- <i>N</i> , <i>N</i> , <i>N</i> -trimethyl-, hydroxide, inner salt)	Cavariella aegopodii on, damage caused	on Areca catechu, in Kerala 6446
Carob (Ceratonia siliqua)	by 5110 DDT in, not toxic 5258	Carya Ceratocapsus nigellus on 2573
Ectomyelois ceratoniae on 706	Euleia heraclei on, in Spain 2463	Datana integerrima on, in USA 6223
insect pests of, in Cyprus 1761	fensulfothion in, residues of 5090	Olethreutes nigranum on, in Ontario
carolina, Polistes	Gortyna borelii on 993	1187
Carotenes and carotenoids, in fruit trees,	G. flavago on 993	Carya glabra, Conotrachelus affinis on,
effects of aphids on 2437 carpenteri, Dendrocerus	insect pests of in Quebec 269	damage caused by 5594 Carya illinoensis (see Pecan)
Carpets, Tinea murariella in, in England	in UK 6501	Carya ovata, Phylloxera caryaecaulis on, in
4113	leptophos in, removing residues of 6721	Indiana 559
carpini, Achrysocharoides	lindane in, residues of 6723	Carya texana, Xyleborus celsus on, in
carpini, Agrilus bilineatus carpini, Asterobemisia	Macrosteles fascifrons on, in Wisconsin 6228	Missouri 543
carpini, Asterovennsia Carpini, Eotetranychus	pest control on 6501	caryae, Curculio caryaecaulis, Phylloxera
carpini, Myzocallis	Psila rosae on	caryana, Cydia (Laspeyresia)
Carpinus, Coleoptera on, in Czechoslovakia	damage caused by 4014	caryana, Laspeyresia (see Cydia caryana)
5201	distribution pattern of 3015	Caryedon
Carpinus betulus	in France 214, 217	in India 4197
Myzocallis carpini on, in New Zealand 5195	in UK 5111 in West Germany 2023	taxonomy of 5294 Caryedon arori
Phyllonorycter quinnatus on, in England	oviposition by 3531	sp. nov., description of 2665
6013	resistance to 5927	in India 2665
Carpobrotus edulis	Sphecidae on, in Uzbekistan 3337	on Cassia tora in Punjab 2665
Pulvinaria delottoi on, in California 5140	Trioza apicalis on, in Finland 1490	Caryedon gonagra (see C. serratus)
P. mesembryanthemi on, in California	Carrot (grated roots), in Tenebrio molitor	Caryedon languidus, gut in 5305
5140 Carpocapsa (see Cydia)	diet, effects on trehalase of 2686 Carrot motley dwarf virus, in, Cavariella	Caryedon patialensis
Carpocapsa (see Cydia)	aegopodii, transmission of 5110	sp. nov., description of 2665 in India 2665
pomonella)	Carrot mottle virus, in, Cavariella aegopodii,	on Cassia occidentalis, in Punjab 2665
carpocapsae, Mastrus	transmission of 2105	Caryedon serratus
Carpocoris, on wheat, in Iran 3365	Carrot powder	control of, fumigants for 5834
Carpocoris fuscispinus	diet component for	gut in 5305
in Morocco 3370 parasitised by, <i>Ooencyrtus</i> spp. 3370	Ceratitis capitata 177 Pterandrus rosa 177	in India 4493 in Senegal 3146
Carpocoris pudicus, in Greece 3367, 5520	Carrot pulp	in stored groundnuts, development of
Carpodacus erythrinus	diet component for	infestation with 3146
prey of 2264	Ceratitis capitata 177	in stored tamarind pods, in India 4493
preying on	Pterandrus rosa 177	Caryedon serratus palaestinicus
Aphidoidea, in Finland 2264	Carrot red leaf virus, in, Cavariella	biology of 2729 in Israel 2729
Cnephasia spp., in Finland 2264 Yponomeuta evonymellus, in Finland	aegopodii, transmission of 2105 Carrot yellow leaf virus 4690	in Prosopis farcta seeds
2264	Cartap (S,S'-[2-(dimethylamino)-1,3-	development of 2729
Carpodacus mexicanus, Lymantria dispar	propanediyl] dicarbamothioate)	oviposition by 2729
nuclear polyhedrosis virus in, passage	against	in stored groundnuts
through gut of 1568	Agrotis segetum 6709 Anthonomus rubi, on strawberry 6448	development of 2729 oviposition by 2729
Carpoglyphus lactis in USSR 602	Leptinotarsa decemlineata, on potato	larval prothoracic plates in 2729
in beehives, in USSR 602	5692	Caryedon serratus serratus, larval
lipids in 3755	Nephotettix cincticeps, on rice 916	prothoracic plates in 2729
Carpomyia vesuviana	Scirtothrips dorsalis, on tea 5731	caryella, Monellia
control of, insecticides for 6477	in potato, persistence of 5692	Caryoborus gonagra (see Caryedon serratus
in Turkey 1311 on Ziziphus sativa, in Turkey 1311	in rice, stimulating reproduction by Nilaparvata lugens 3927	α-Caryophyllene (see 1,4,8- Cycloundecatriene, 2,6,6,9-tetramethyl-)
carpophagus, Coccotrypes	carthami, Chaetorellia	β-Caryophyllene (see Bicyclo[7.2.0]undec-4
Carpophilus	carthami, Dactynotus (see Uroleucon	ene, 4,11,11-trimethyl-8-methylene-)
in cacao beans, in Nigeria 6645	carthami)	β-Caryophyllene oxide (see 5-
in oil-palm kernels, in Nigeria 6645	carthami, Thrips	Oxatricyclo[8.2.0.0 ^{4,6}]dodecane, 4,12,12-
on date palm, in Egypt 2422 Carpophilus dimidiatus	carthami, Uroleucon (Dactynotus) Carthamus tinctorius (see Safflower)	trimethyl-9-methylene-) casalis, Androlaelaps
control of, insecticides for 3679	Carulaspis, parasites of, in Pennsylvania	Casea chinensis (see Pteroptrix chinensis)
in USA 3679	2068	casei, Piophila
in stored groundnuts, in Kansas 3679	Carulaspis juniperi	casei, Tyroglyphus (see Tyrolichus casei)
Carpophilus freemani	biology of 2068	casei, Tyrolichus (Tyroglyphus;
in USA 3999	food-plants of 2083	Tyrophagus) casei, Tyrophagus (see Tyrolichus casei)
on fig, colonisation by 3999 Carpophilus hemipterus	in New Zealand 2083 in USA 2068	Casein hydrolysate
in Finland 3787	on Chamaecyparis, in Pennsylvania 2068	diet component for
in USA 3999	on Juniperus, in Pennsylvania 2068	Chrysopa carnea 169
on fig, colonisation by 3999	on Thuja occidentalis, in Pennsylvania	Homona coffearia 1225
Carpophilus lugubris	2068	Caseins diet component for
control of, insecticides for 4899 in USA 4899	parasitised by, Aspidiotiphagus citrinus, in New Zealand 2083	diet component for Lymantria dispar 4886
on maize, in Maryland 4899	taxonomy of, misidentified as C. visci, in	Tyrophagus putrescentiae 6172
Carpophilus mutilatus	New Zealand 2083	in Lymantria dispar diet, effects on virus
in Libya 2368	Carulaspis minima	production of 4935
in USA 3999	biology of 2068	Cashew (Anacardium occidentale)
on fig, colonisation by 3999	in USA 2068	arthropod pests of
on maize, in Libya 2368	on Juniperus, in Pennsylvania 2068 preyed on by, Aleuropteryx juniperi, in	book 5063 in Kenya 4181
Carpophilus pilosellus in India 3677	Pennsylvania 2068	Dacus dorsalis on
in Areca catechu nuts, in Karnataka	Carulaspis visci	damage caused by 2431
3677	on Viscum album 2083	in Karnataka 2431

phorate in, residues of 2003

Cashew contd. Castanea (stored nuts) Catastrophe theory Helopeltis antonii on, damage caused by insect pests of, in France 3144 applied to migratory behaviour in 4550 pest control in 3144 Tapinoma erraticum 6292 insect pests of, in India 946 pest control on 946 book 5063 castaneae, Cremastocheilus castaneivora, Moritziella castaneum, Nicobium castaneum, Tribolium applied to pesticide usage 6697 Catechin, Yponomeuta feeding responses to 4775 Plocaederus ferrugineus on, damage caused by 4550 Catecholamines, in invertebrates, book castaneus, Cyrtepistomus 3274 Pseudaonidia trilobitiformis on 5088 Castnia, parasitised by, Emdenimyia spp. catenata, Darna Scirtothrips dorsalis on 4726 Cathartus quadricollis, preyed on by, Xylocoris flavipes 2099 damage caused by 1969 in Karnataka 1969 Castnia licoides Cation exchange capacity, in soil, not affected by insecticides 2141 control of 1661 distribution of 1661 food-plants of 1661 Casnoidea indica Catocala promissa biology of 4092 in Spain 4092 on Quercus, in Spain 4092 catocaloides, Achaea in Indonesia 3415 in rice-fields, in Indonesia 3415 natural enemies of 1661 Casnoidea interstitialis control of, integrated in Brazil 289, 1916 on sugar-cane in Malaysia 3407, 3408, 6408 in rice-fields Catopinae effects of insecticides on 3407 in West Malaysia 6408 in maize fields, in West Germany 6358 in rye fields, in West Germany 6358 damage caused by 289 in Brazil 1916 preying on, Nilaparvata lugens, in West Malaysia 3408 in rye fields, in west Cermany 0338 Cattle (Bos taurus)
DDT in, residues of 1707, 5981 dieldrin in, residues of 5981 pasture pests as affected by 2920 Thymelicus lineola baculovirus in, no effects from 604 Castor (Ricinus communis) traps for 6408

Cassava (Manihot esculenta) Achaea janata on damage caused by feeding by 2505 in Maharashtra 57 in Rajasthan 5711 arthropod pests of 1023, 1024 in Brazil 1531, 2498 in Colombia 1025 Cattle dung in Pacific region 4592
resistance to 4180
bibliography 3027
insect pests of 5695
Mononychellus tanajoa on 2654
effects of fertilizers on 5696
resistance to 696 Aphodiidae in, in Bangladesh 4403
Aphodius tasmaniae in, in New South Amrasca biguttula on, in Maharashtra 5710 Diacrisia obliqua on, development of Wales 1948 1820 as fertilizer, compatibility with insecticides of 3038 Dichocrocis punctiferalis on biological control of 3727 development of 2507 in Bihar 2506 in Gujarat 2822 in Tamil Nadu 283 resistance to 696 est control on 1023, 1024, 5695 Coleoptera in, resource partitioning among guilds of 1303 Phenacoccus manihoti on, resistance to diet component for Genyodonta flavomaculata Pachnoda sinuata 397 Eutetranychus orientalis on Eutetranycrus Orientalis in Hartyana 267 in Madhya Pradesh in Rajasthan 1361 Heliothis armigera on development of 4330 in Maharashtra 2503 Rhopalosiphum spp. on, in Kerala 6542 Fannia spp. in, intraspecific competition in 3423 Tetranychidae on damage caused by 6544 key 6545 Geotrupes stercorarius in, effects of soil type on 3428

Hydrotaea dentipes in, intraspecific competition in 3423

removal by dung beetles of 1944

removal by earthworms of 1944

Scarabaeidae in varietal preference of 6543

Zonocerus variegatus on, damage caused by 1532, 4593

Casava fields, beneficial arthropods in rearing of 810

Samia cynthia on, effects of fertilizers on 4369, 4370 1024 Cassava mosaic virus, etiology of 696 Schistocerca gregaria on, morphology of Cassava products for fly control arthropod pests of 1024 Cryptolestes klapperichi in, in West Malaysia 1106 in Bangladesh 4403 Spodoptera exigua on, development of 4329 Scathophaga stercoraria in, intraspecific S. litura on, lipid utilisation by 52 competition in 3423 Sundapteryx biguttula on, in Karnataka 4054 C. pusillus in, in West Malaysia 1106 insect pests of, in West Malaysia 3143 Cattle housing, pest control in 5230 Cattle milk, DDT in, residues of 4951 Cattle milk (dried), in formulations of Tetranychus cinnabarinus on, in Haryana Amblycerus spp. on 1584
Bruchidae on 6626
coevolution of 5750
Zabrotes spp. on 1584
Cassia durangensis, Sennius morosus on Beauveria brongniartii 4135 Cattle serum, in mouse cell cultures, 267 T. macfarlanei on, in Madhya Pradesh 4295 Cattle serum, in mouse cell cultures, protecting against insect growth regulators 4168 caudata, Phryxe caudatus, Tydeus caudiglans, Typhlodromus Cauliflower and broccoli (Brassica oleracea var. botrytis) aldicarb in, residues of 2003 Artogeia rapae on in Nebraska 6226 in New Zealand 5889 Brevicoryne brassicae on, damage caused Trabala vishnou on, feeding by 1819
Castor cake, as fertilizer for Litchi chinensis, effects on Argyroploce leucaspis of 1584 Cassia obtusifolia, Graphognathus peregrinus on, oviposition by 3760 Cassia occidentalis, Caryedon patialensis on, in Punjab 2665 6497 Castor fields, parasitic insects in, in Andhra Pradesh 6310 Casuarina, Icerya spp. on, in India 703 Casuarina equisetifolia, Lixus camerunus on Cassia tora Acrocercops cramerella on, in Bihar Caryedon arori on, in Punjab 2665 cassinii, Magicicada Casuarina lepidophloia, Cyrtacanthacris guttulosa on, in New South Wales 822 Cat (Felis domesticus) Brevicoryne brassicae on, damage caused by 5093 by 5093 Ceutorhynchus assimilis on, in Tennessee Byctiscus betulae on, in France 2941 Diurnea spp. on, in Japan 4640 Dryccosmus kuriphilus on, in Japan Vespa orientalis venom in, effects of Cataenococcus, on coffee, in Tamil Nadu DDT in, not toxic 5258 Cataglyphis bicolor foraging in 4976 in Greece 2806, 4976 walking speed in 2806 Cataglyphis cursor, parthenogenesis in Delia brassicae on insect pests of, in France 3461 Moritziella castaneivora on, in Honshu in Finland 1490 in Finland 1490
in Netherlands 5656
oviposition by 6151
D. floralis on, in Finland 1490
insect pollinators of, sampling of 2
insecticides in, persistence of 2473
Mamestra brassicae on
damage caused by 5655
in France 2998
in Yugoslavia 4024 1602 pest control on 3461 Castanea crenata 2280 Dryocosmus kuriphilus on, in Kyushu 3572 Catalase Oligonychus ununguis on, development of 719 in Bacillus popilliae, not found 3682 in Schistocerca gregaria cuticle 3261 in Tribolium, effects of Protozoa on castanea, Diparopsis m Yugoslavia 4024
monocrotophos in, residues of 5268
Myzus persicae on, effects of cauliflower
mosaic virus on 4749
parathion-methyl in, residues of 5268
pest control on 1487
companion crops for 6226
insecticides for 1498, 4025
thresholds for 4022
phorate in, residues of 2003 Castanea sativa
Catocala promissa on 4092
Cyamophila odontoptyx on, in Turkey 1618 Catalaunalis, Antigastra
Catantopinae, oviposition in
Catantops haemorrhoidalis
biology of 5455
control of, baits for 5455
descriptions of 5455
distribution of 5455
food-plants of 5455 insect pests of, in France 3461 pest control on 3461 Castanea sativa (stored nuts) insect pests of, in France pest control in 3144 3144

1100 11 11 11	a	
auliflower and broccoli contd.	Cecidomyiidae contd.	Cell lines contd.
Phyllotreta undulata on, feeding by 4018	in female birch catkins 5190	Trichoplusia ni contd.
Plutella xylostella on	in soil, extracting of 4873	nuclear polyhedrosis virus in,
effects of temperature on 2004	on apple, in Switzerland 1456	replication of 6688
in Gujarat 4023	on cassava, in Colombia 1025	valinomycin in, cytotoxicity of 5851
in Nebraska 6226	on courgette, in Kenya 1503	vectors of plant viruses 4691
in New Zealand 5889		
	preyed on by, Araneae, in Poland 2819	viper, Autographa californica nuclear
Schistocerca gregaria on, development of	preying on	polyhedrosis virus in, localisation of
2319	Fiorinia theae, in Assam 1057	3168
Trichoplusia ni on, in Nebraska 6226	Matsucoccus matsumurae, in Kiangsu	Cellophane, stored-product insects in,
uliflower mosaic virus	Province 567	damage caused by, specific identity of
in	Cecidophyes malifoliae	4678
Brevicoryne brassicae, transmission of	descriptions of 388	Cellulase
5093	in Bulgaria 388	in Cheyletus eruditus gut 4231
cauliflower, effects on Myzus persicae		in Coptotermes lacteus gut 3260
of 4749	on apple, in Bulgaria 388	in Nasutitermes exitiosus gut 3260
utella, Cadra (see Ephestia cautella)	Cecidophyopsis ribis	in Resseliella theobaldi salivary glands
utella, Ephestia (Cadra)	biology of 4548	1443
ivariella aegopodii	control of 4548	Cellulose
anthriscus yellows virus in, transmission	currant reversion virus in, transmission of	
of 2105	4548	in Neotermes bosei diet, digestion of
	food-plants of 5056	6329
biology of 5110		in Oryctes nasicornis diet, digestion of
carrot mottle virus in, transmission of	in UK 4548, 5056	5317
2105	non-gall-forming strain of 5056	in raspberry, effects of Resseliella
carrot red leaf virus in, transmission of	on black currant, in UK 4548	theobaldi on 1443
2105	Cecidostiba dendroctoni (see Dinotiscus	acetate, stored-product insects in, damage
control of 5110	dendroctoni)	caused by, specific identity of 4678
descriptions of 5110	cecilsmithi, Ceratocapsus	hydroxyethyl ether, diet component for,
food-plants of 5110	cecropia, Hyalophora	Spodoptera littoralis 5717
heracleum latent virus in, transmission of	Cedar (see Cedrus)	Celsia coromandeliana, Cionus hortulanus
601		on, in Uttar Pradesh 856
in UK 5110	Cedar, eastern red (see Juniperus virginiana)	
	Cedar, eastern white (see Thuja	celsus, Xyleborus
on carrot, damage caused by 5110	occidentalis)	cembrae, Ips
on Heracleum sphondylium, virus	Cedrela	Cement, tetrachlorvinphos on, persistence of
transmission by 600	Chrysobothris distincta on, in Central	6651
parsnip yellow fleck virus in, transmission	America 5172	Cenchrus biflorus
of 2105	Hypsipyla grandella on, in El Salvador	Locusta migratoria on
taxonomy of, characters distinguishing C.	5172, 5174	development of 2321
bunii and 2663	Cedrobium, on conifers, in Italy 2082	in Mali 3328
variella bunii	Cedrus	Cenchrus ciliaris, Aeneolamia spp. on,
sp. nov., description of 2663	insect pests of, in Italy 6592	damage caused by 2308
in USSR 2663	Lachnidae on, in Italy 2082	Cenopalpus pulcher (see Brevipalpus
on Bunium persicum, in Tadzhikistan		pulcher)
	Centrate de la contrate de la contra	
2663	Coptotermes heimi in, not developing	Centaurea diffusa, Urophora spp. on, and
variella pastinacae	6660	biological control using, in British
heracleum latent virus in, transmission of	Odontotermes obesus in, not developing	Columbia 6342
601	6660	Centaurea maculosa
on Heracleum sphondylium, virus	Cedusa inflata	Urophora spp. on, and biological control
transmission by 600	in USA 5583	using, in British Columbia 6342
variella theobaldi	on palm trees, in Florida 5583	U. affinis on
heracleum latent virus in, transmission of	Celama sorghiella (see Nola sorghiella)	and biological control using
601	celarius, Schizotetranychus	in Montana 4479
on Heracleum sphondylium, virus	celebesiana, Leucauge	in Quebec 4483
transmission by 600	Celery (Apium graveolens)	U. quadrifasciata on, and biological
velerius saccharivorus	Cavariella aegopodii on, in UK 5110	control using, in Quebec 4483
dispersal of 4500	Euleia heraclei on, in Spain 2463	Centipede (see Chilopoda)
in Japan 292, 4500, 5514	insect pests of, in Quebec 269	Centistinae, venom apparatus in 2672
on Miscanthus, in Japan 5514	peach X-disease, causal agent in, leaf-	Central African Republic, plant protection
on sugar-cane	hopper transmission of 2101	in 3238
in Japan 5514	Celia, in Soviet Far East 149	centrosematis, Ophiomyia
in Ryukyu Islands 292, 4500	Cell lines	Centrotinae, thoracic sclerites and sutures in
oviposition in, effects of temperature on	Aedes aegypti, Chilo iridescent virus in,	5301
292	cell fusion caused by 5232	cepae, Liriomyza (Phytobia)
population dynamics of 5514	A. albopictus	cepae, Phytobia (see Liriomyza cepae)
reproduction in 4500	Chilo iridescent virus in, cell fusion	Cepaea nemoralis, lectins in, receptors in
vella, Phyllonorcyter	caused by 5232	insects for 6335
via cobaya (see Guinea-pig)	iridescent virus in, replication of 4137	Cephalcia lariciphila
vifrons, Cryptotermes	Choristoneura fumiferana, Bacillus	control of, biological 6602
vithorax, Ancistrotermes	thuringiensis in, effects on cell	in UK 5159, 5752, 6602
vus, Dibrachys	membranes of 6685	Neoaplectana spp. in, in England 5752
vus, Platypus	Drosophila melanogaster, cricket paralysis	on Larix, in England 5752
		on Larix kaempferi, in Wales 5159
yman Islands, Neuroptera in 1836	virus in, polypeptides induced by 5844	population dynamics of 6602
CC (see Chlormequat)		
CN 52	insects, review 5433	preyed on by, small mammals, in Wales
against	Lymantria dispar, Chilo iridescent virus	5159
Earias insulana, on cotton 227	in, cell fusion caused by 5232	cephalonica, Corcyra
Pectinophora gossypiella, on cotton	Malacosoma disstria, Nosema disstriae in,	Cephalonomia waterstoni
227	effects of antibiotics on 617	in Canada 4668
anothae, Arytaina	mouse, insect growth regulators in,	parasitising, Cryptolestes ferrugineus, in
anothi, Asphondylia	toxicity of 4168	Manitoba 4668
eanothus sanguineus, insect pests of, in	mulberry, use in Bombyx mori diets of	Cephalops curtifrons
Idaho 4090	808	biology of 842
cidivorus, Tetrastichus	Spodoptera frugiperda	descriptions of 842
ecidomyia serotinae (see Contarinia	iridescent virus in, replication of 4137	in UK 842
	nuclear polyhedrosis virus in	parasitising, Stenocranus minutus, in
cerasiserotinae)		England 842
cidomyiidae	culturing of 4680, 4681	
control of, insecticides for 1456	proteins in 3690	Cephaloserica thomsoni
in Hokkaido 2767	replication of 6688	in India 2436
in agricultural soils, factors affecting	S. littoralis, monitoring of virus	on fruit trees, in Himachal Pradesh 2436
2758	production in 2617	Cephalosporium, in, insects, pathogenicity of
in cabbage fields, effects of Bacillus	Trichoplusia ni	1637
thuringiensis on 5839	Bacillus thuringiensis in, cytotoxicity of	Cephalosporium charticola, in, Gelechia
in cacao plantations, in Costa Rica 5133	5851	hippophaella, in Buryatia 1322

Cephalosporium lecanii (see Verticillium	Ceratitis capitata contd.	Ceratopogonidae
lecanii)	in El Salvador 4563	in cacao plantations, in Costa Rica 5
cephalotes, Atta	in Guatemala 1663, 1670, 4563	traps for 1317
Cephidae, in Lithuania 5387	in Honduras 4563	Ceratostomella (see Ceratocystis)
Cephus cinctus, distribution map for 3303	in Italy 5377, 6459	Cerceris, plants visited by, in Uzbekistan
Cephus pygmeus	in Mexico 4563	3337
distribution map for 3303	not established 1663	Cerceris watlingensis
in France 1831	in South Africa 1466	in Bahamas 4930
Ceracia fergusoni in Australia 2322	in Turkey 1311	nesting behaviour in 4930
parasitised by, <i>Perilampus australis</i> , in	in USA 4563	preyed on by, Formicidae, in Bahamas
New South Wales 2322	in USA (Hawaii) 3700, 3722 in USSR 5595	preying on, Curculionoidea, in Baham
parasitising, Chortoicetes terminifera, in	in stored oranges, imported into USSR	4930
New South Wales 2322	5595	Cercopidae, in South America 16
Cerambycidae	insecticide resistance in, detecting and	cerdo, Cerambyx
compound eyes in 715	measuring of 3712	Cereal chlorotic mottle virus
control of, removing infested material for	life-span in	hosts of 867
5626	effects of high temperatures on 2229	in
in Arizona 4294	effects of temperature on 1247	maize, in Australia 867
in Honduras 6126	lipids in 6051	Nesoclutha pallida localisation of 1122
in Korea 4301 in New Zealand 4304	biosynthesis of 5346	morphology of 1122
in Poland 4615	mating competitiveness in, effects of y-	transmission of 867
in Texas 1076	irradiation on 3286	Cereal tillering virus, in, Laodelphax
in pine wood, in El Salvador 5167	mating in 2245	striatella, transmission of 3881
in woodland, in Indiana 3302	muscalure not attractive to 1474	cerealella, Sitotroga
on Citrus, in India 5626	on Citrus, in Argentina 6480	cerealium, Limothrips
traps for 1102	on Harpephyllum caffrum, development of	cereicola, Alcidion
Cerambyx cerdo	1466	Ceresa, taxonomy of 2
biology of 3104	oviposition in, rhythm of 806	Ceresa bubalus, oviposition slits of, aphie
in Poland 3104	rearing of	eggs in 4554
on Quercus robur, in Poland 3104 predators of, in Poland 3104	diets for 177, 806, 3747 quality control in 4811	Ceresini in Americas 2
Ceramica picta	techniques for 1318	phylogeny of 2
development in 1018	sterilisation of, v-irradiation for 6480	taxonomy of 2
fecundity in 1018	sterilisation of, γ-irradiation for 6480 traps for 3700, 3722, 5377, 5595	Cerna omissa
nuclear polyhedrosis virus in,	white pupae mutant of 2228	in Turkey 1310
pathogenicity of 3694	wings of, measuring of 805	on Fraxinus, in Turkey 1310
on sugar-beet, damage caused by 1018	Ceratitis cosyra (see Pardalaspis cosyra)	Cerococcus
Ceramica pisi, in Italy 6125	Ceratitis rosa (see Pterandrus rosa)	control of, insecticides for 4083
cerana, Apis Cerapteryx graminis	Ceratocapsus, taxonomy of 2573 Ceratocapsus cecilsmithi	on coffee, in Tamil Nadu 4083 Cerococcus ornatus
biology of 928	sp. nov., description of 2573	hyperparasites of, in Tamil Nadu 65
colour morphs of 2178	in USA 2573	in India 6577
in Canada 928	on Pinus rigida, in New Jersey 2573	on coffee, in Tamil Nadu 6577
in Finland 2178	Ceratocapsus lutescens, group of, keys to	parasites of, in Tamil Nadu 6577
in Italy 6125	2573	Cerodontha oryzivora
in Italy 6125 in lawns, in Newfoundland 928	2573 Ceratocapsus luteus	Cerodontha oryzivora in India 3935
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928	2573 Ceratocapsus luteus on Picea 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928	2573 Ceratocapsus luteus on Picea 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasi, Caphedrus	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicola, Ephedrus cerasiserotinae, Contarinia	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastae floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicola, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicola, Ephedrus cerasiserotinae, Contarinia	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastae floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicola, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on	2573 Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasisoria, Ephedrus cerasivoranus, Archips Ceratapins palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicola, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Ceratiphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinia cerasivoranus, Archips Ceratitis capitata amino acids in, effects of \(\gamma\)-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasisoroia, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sepinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicota, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicoola, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus nigellus on Carya 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinis cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicota, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicola, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563,	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus nigellus on Carya 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Myzus cerasi, Myzus cerasiserotinae, Contarinis cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicola, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563,	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Myzus cerasi, Myzus cerasiserotinae, Contarinis cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicota, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasina, Pandemis cerasi, Myzus cerasi, Rhagoletis cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24:
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasina, Pandemis cerasi, Myzus cerasi, Myzus cerasiserotinae, Contarinis cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of temperature on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Clmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotainia albipilosa, predatory behavior
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicota, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Cirus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 parasites of, in Bangladesh 5087 ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24. Cerotainia albipilosa, predatory behavious 3857
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotainia albipilosa, predatory behavior 3857 Cerotoma atrofasciata
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicota, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Cirus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 parasites of, in Bangladesh 5087 ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24. Cerotainia albipilosa, predatory behavious 3857
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasina, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229 enzymes in 5346, 6651 EPPO data sheet on 4703 fatty acids in, developmental changes in	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 VUlmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568 U. glabra, in Denmark 566	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotainia albipilosa, predatory behavior 3857 Cerotoma atrofasciata cowpea mosaic virus in, transmission of
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Myzus cerasi, Myzus cerasiserotinae, Contarinis cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229 enzymes in 5346, 6051 EPPO data sheet on 4703 fatty acids in, developmental changes in 4789	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568 U. glabra, in Denmark 566 life-cycle of 5209	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotama atrofasciata cowpea mosaic virus in, transmission of 1011 in Costa Rica 1011 on Vigna unquiculata, in Costa Rica
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasicota, Ephedrus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229 enzymes in 5346, 6051 EPPO data sheet on 4703 fatty acids in, developmental changes in 4789 fecundity in, effects of temperature on	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568 U. glabra, in Denmark 566 life-cycle of 5209 vectors of 6600	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotania albipilosa, predatory behavior 3857 Cerotoma atrofasciata cowpea mosaic virus in, transmission of 1011 in Costa Rica 1011 on Vigna unguiculata, in Costa Rica
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229 enzymes in 5346, 6651 EPPO data sheet on 4703 fatty acids in, developmental changes in 4789 fecundity in, effects of temperature on 1247	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568 U. glabra, in Denmark 566 life-cycle of 5209 vectors of 6600 Ceratonia siliqua (see Carob)	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotainia albipilosa, predatory behavior 3857 Cerotoma strofasciata cowpea mosaic virus in, transmission of 1011 in Costa Rica 1011 on Vigna unguiculata, in Costa Rica 1011 Cerotoma ruficornis
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasina, Pandemis cerasi, Myzus cerasi, Myzus cerasiserotinae, Contarinis cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229 enzymes in 5346, 6051 EPPO data sheet on 4703 fatty acids in, developmental changes in 4789 fecundity in, effects of temperature on 1247 β-fenchol in 6062	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568 U. glabra, in Denmark 566 life-cycle of 5209 vectors of 6600 Ceratonias iliqua (see Carob) ceratoniae, Apomyelois (see Ectomyelois	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotania albipilosa, predatory behavior 3857 Cerotoma atrofasciata cowpea mosaic virus in, transmission of 1011 in Costa Rica 1011 on Vigna unguiculata, in Costa Rica
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasana, Pandemis cerasi, Caliroa cerasi, Myzus cerasiserotinae, Contarinia cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229 enzymes in 5346, 6651 EPPO data sheet on 4703 fatty acids in, developmental changes in 4789 fecundity in, effects of temperature on 1247	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568 U. glabra, in Denmark 566 life-cycle of 5209 vectors of 6600 Ceratonia siliqua (see Carob)	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangla 5087 Ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotama atlopilosa, predatory behavior 3857 Cerotoma atrofasciata cowpea mosaic virus in, transmission of 1011 in Costa Rica 1011 on Vigna unquiculata, in Costa Rica 1011 Cerotoma ruficornis bean yellow stipple virus in, transmiss
in Italy 6125 in lawns, in Newfoundland 928 in pastures, in Newfoundland 928 preyed on by, birds, in Newfoundland 928 cerasina, Pandemis cerasi, Caliroa cerasi, Myzus cerasi, Rhagoletis cerasivoranus, Archips Cerataphis palmae, predators of 2821 Ceratitis capitata amino acids in, effects of γ-irradiation on 4786 attractants for 3700, 3722 biology of 5595 control of 1466 bait sprays for 1670, 6480 biological 1670 evaluating of 5424 fumigants for 1615 growth regulators for 2148, 3232 insecticides for 3700, 4563, 5595 quarantine for 5595 sterile-insect release for 1670, 4563, 4796, 6480 traps for 6480 development in effects of humidity on 1247 effects of temperature on 1247 diflubenzuron in, effects of 3232 dispersal of 5377 emergence in 722 effects of high temperatures on 2229 enzymes in 5346, 6051 EPPO data sheet on 4703 fatty acids in, developmental changes in 4789 fecundity in, effects of temperature on 1247 β-fenchol in 6062 fertility in, effects of high temperatures on	Ceratocapsus luteus on Picea 2573 on Pinus 2573 Ceratocapsus modestus on Quercus 2573 on Vitis 2573 Ceratocapsus nigellus on Carya 2573 on Quercus 2573 Ceratocapsus piceatus sp. nov., description of 2573 food-plants of 2573 in USA 2573 Ceratocapsus sericus, on Quercus rubra 2573 Ceratocapsus sericus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocapsus spinosus, on Platanus occidentalis 2573 Ceratocystis, in, Pinus nigra, relation of beetles and 4109 Ceratocystis ulmi (see also Dutch elm disease) control of 5209 vector control for 3087, 4924, 6610 in Hylurgopinus opaculus, transmission of 3087 Scolytus multistriatus, transmission of 3087 Ulmus spp. in Belgium 3824 in Europe 3087 in France 6610 in Kansas 5209 in Netherlands 533 in North America 3087 in Poland 4616 in Yugoslavia 3568 U. glabra, in Denmark 566 life-cycle of 5209 vectors of 6600 Ceratonias siliqua (see Carob) ceratoniae, Apomyelois (see Ectomyelois ceratoniae)	Cerodontha oryzivora in India 3935 on rice, varietal preferences of 3935 cerophaga, Diadegma ceroplastae, Aneristus Ceroplastes floridensis in Greece 5622 in Libya 358 on Citrus in Greece 5622 in Libya 358 Ceroplastes pseudoceriferus in Bangladesh 5087 on mango, damage caused by 5087 parasites of, in Bangladesh 5087 parasites of, in Bangladesh 5087 ceroplastes rubens in India 281 on cinnamon, in India 281 Ceroplastes rusci control of, insecticides for 4000 in Greece 5622 in Turkey 4000 on Citrus, in Greece 5622 on fig, in Turkey 4000 Ceroplastes sinensis control of, biological 5949 in Australia 5949 Cerosterna scabrator control of, insecticides for 2428 in India 2428 on grapevine, in Andhra Pradesh 24: Cerotania albipilosa, predatory behavior 3857 Cerotoma atrofasciata cowpea mosaic virus in, transmission of 1011 in Costa Rica 1011 on Vigna unguiculata, in Costa Rica 1011 Cerotoma ruficornis bean yellow stipple virus in, transmiss

•		
erotoma ruficornis contd. in Mexico 2301	Ceutorhynchus litura contd. on thistle, and biological control using	Chaetomium globosum
on Phaseolus, resistance to 2301	5505	Eucalyptus regnans wood, effects on
on Vigna unguiculata, in Costa Rica	Ceutorhynchus napi	Nasutitermes exitiosus of 2842
1011	biology of 2993	Eucalyptus wood, effects on termite
erotoma trifurcata	control of	resistance of 262
cowpea chlorotic mottle virus in,	insecticides for 1867, 5652	chaetophora, Ayyaria
transmission of 2007	timing of 2993	Chaetophyes compacta
diapause in 1510	in Austria 1756	in Australia 2579
dispersal of 1509	in Poland 1866, 1867, 2993, 2994, 2995,	life history of 2579
flight activity in 1509	3517, 3702	on Eucalyptus, feeding by 2579
food-plants of 6190 in USA 1003, 1509, 1510, 2485, 4588,	in Switzerland 5652	Chaetorellia carthami
4589, 6190	on rape	biology of 477
on legumes, damage caused by 453	damage caused by 1866, 2994, 2995	in Iraq 477
on lucerne, development of 6190	in Austria 1756	on safflower, damage caused by 477
on Phaseolus lunatus, development of	in Poland 2993, 3517	Chaetosiphon fragaefolii
6190	in Switzerland 5652	in East Germany 2939
on Phaseolus vulgaris, development of	on turnip, damage caused by 3702	in Finland, not found 4546
6190	parasitised by, Hymenoptera, in Poland	in USA 5503
on soyabean	3517 Ceutorhynchus pallidactylus	on Potentilla, in USA 5503
assessing infestations of 4589	control of, insecticides for 1867	on strawberry, in East Germany 2939 chaetosiphon, Neobetulaphis
development of 6190	in Austria 1756	Chaitophoridae, in urban areas, in West
distribution pattern of 4588, 4589 diurnal fluctuations in 2485	in Poland 1866, 1867, 2470, 3517, 3702	Germany 4300
in North Carolina 1509, 1510	in UK 4573	Chaitophorus
on Trifolium pratense, development of	on cabbage, damage caused by 3702	on Salix caprea, in Jammu and Kashmir
6190	on rape	2765
on Vigna unguiculata, development of	damage caused by 1866, 2470, 4573	parasitised by, Adialytus salicaphis, in
6190	distribution pattern of 4573	Jammu and Kashmir 2765
overwintering in, emergence from 1003	in Austria 1756	Chaitophorus leucomelas
seasonal anatomical changes in 1510	in Poland 3517	development in, effects of temperature on
rvicalis, Scymnus	parasitised by, Hymenoptera, in Poland	547
rvicalis, Zelus	3517	on Populus nigra, development of 547
rvinus, Anthicus	Ceutorhynchus pleurostigma	Chalcididae
rvinus, Pantomorus	in Poland 2469	parasitising
stus, Zaomma	on rape	Microlepidoptera, in West Germany
etonia aurata pisana	in Poland 2469	1575
distribution of 4296 in Italy 4296	invertebrates in galls of 2469	Phyllonorycter spp., in England 4623 Chalcidoidea
on blackberry, in Italy 4296	Ceutorhynchus quadridens (see C.	book 6265
on Sambucus ebulus, in Italy 4296	pallidactylus)	functional morphology of 6035
euthorhynchidius horridus	Ceutorhynchus trimaculatus	in America south of USA 5410
biology of 1362	food-plant specificity in 5010	in Lithuania 5395
in Italy 275, 3872	on Carduus acanthoides, development of	in Madeira Islands 3778
on Carduus, and biological control using,	5010	in citrus groves, in Italy 5633
in Virginia 1362	on Carduus nutans, development of 5010	in orchards, in Lithuania 3466
on Carduus acanthoides	on Cirsium vulgare, development of	in wheat fields, effects of burning of
and biological control using	5010	stubble on 2889
in Quebec 4483	on globe artichoke, development of 5010	parasitising
in Virginia 275	on safflower, not ovipositing 5010	Acraspis hirta, in New Jersey 526
on Carduus nutans	on Silybum marianum, oviposition by	Hyphantria cunea, in France 3075
and biological control using in New Zealand 3872	5010 taxonomy of, characters distinguishing	Lepidoptera, in Bangladesh 6325 Rhyacionia duplana, in Scotland 5157
in Virginia 275	Ceuthorhynchidius horridus and	chalcites, Pterostichus
on thistle, and biological control using	2347	Chalcodermus aeneus
5505	CGA-12223 (see Isazophos)	control of, insecticides for 5105
taxonomy of, characters distinguishing	CGA-13353 (see 2-Butenoic acid, 3-methyl-	in USA 5105
Ceutorhynchus trimaculatus and	4-[4-(phenylmethyl)phenoxy]-, ethyl	on Vigna unguiculata, resistance to 510:
2347	ester)	chalcographus, Pityogenes
eutorhynchus asperulus	CGA-15324 (see Profenofos)	Chalicodoma spissula
in India 5675	CGA-74055, against, Heliothis spp., on	parasites of, control of 4438
on Cajanus cajan, in Karnataka 5675	cotton 3552	parasitised by, Melittobia acasta 4438
parasitised by, <i>Diaparsis</i> spp., in Karnataka 5675	locust control in 5899	Chalk quarries, soil microarthropods in, succession of 3426
eutorhynchus assimilis	plant protection in 3238	Chalybion turanicum
control of	Chaenomeles speciosa, Cydia dimorpha on,	in USSR 3337
insecticides for 1866	in Honshu 2947	plants visited by, in Uzbekistan 3337
preventing oviposition for 3515	Chaetocnema concinna	Chamaecyparis
timing of 1866, 5095	control of, insecticides for 1490	Carulaspis juniperi on, in Pennsylvania
dispersal of 5095	in Austria 1756	2068
in Austria 1756	in Finland 1490	Lachnidae on, in Italy 2082
in Poland 1866, 3702, 5095	on beetroot, in Finland 1490	Chamaesphecia empiformis, on Euphorbia,
in UK 4573	on crucifers, in Finland 1490	and biological control using, in Canada
in USA 999	on sugar-beet, in Austria 1756	6339 Chamomile (Anthemis nobilis and
in West Germany 3515	Chaetocnema confinis control of, insecticides for 3026	Matricaria chamomilla)
on broccoli, in Tennessee 999 on cabbage, in Tennessee 999	in USA 3026	Chamomile (dried leaves), Lasioderma
on rape	on sweet potato, in Georgia (USA) 3026	serricorne in, development of 2608
damage caused by 3702, 4573	Chaetocnema pulicaria	championi, Octotoma
distribution pattern of 4573	in USA 347	Channa punctatus, malathion in, toxicity of
effects of plant growth regulators on	in grassland	4708
3515	effects of fertilizers on 347	Characoma stictigrapta
in Austria 1756	effects of insecticides on 347	in Ghana 1054
in Poland 5095	Chaetocnema tibialis	in Nigeria 6576
parasites of, effects of insecticides on	in Austria 1756	on cacao, damage caused by 1054, 6576
1866	on sugar-beet	on Cola, damage caused by 6576
eutorhynchus denticulatus	in Austria 1756	Charips parasitising
in Poland 3776	in Europe 1523 Chaetogeoica polychaeta	Lysiphlebus testaceipes, in Texas 291
on Papaver rhoeas, in Poland 3776 eutorhynchus litura	sp. nov., description of 1834	Trioxys indicus 5108
on Cirsium arvense, and biological control	in India 1834	Charletonia rocciai
using, in Montana 4479	on rice, in West Bengal 1834	sp. nov., description of 861
		1 1 1

Charletonia rocciai contd. Cherry (Prunus avium) Chile contd. Orgyia antiqua in, natural enemies of hyperparasitising, Diatraea saccharalis, in Adoxophyes orana on, in Yugoslavia 5068 4442 Brazil 861 Pinus radiata in, insect pests of 5173 Rhopalosiphum padi in, on wheat 5998 Scaptomyza multispinosa in, on brassicas in Brazil 861 Bryobia cristata on, in UK 1451 Caliroa cerasi on, in Lithuania 5396 parasitising, Metagonistylum minense, in Brazil 861 Capnodis tenebrionis on, in Morocco Charmon, taxonomy of 3245 2465 chasanica, Craspedolepta Chatham Islands (indexed under New Coleophora spp. on, in Poland 2952 Sitobion avenae in, on wheat 5998 Gonioctena quinquepunctata on, in Italy Tatochila blanchardii in 4955 Tetranychidae in, natural enemies of 1445 Zealand) 1985 Hemithea aestivaria on, in British
Columbia 1974
insect pests of, in Himachal Pradesh
2436 Cheese chilensis, Aphytis chilensis, Holopterus arthropod pests of 3116 leptophos in, residues of 5983 pest control in 3116 Chilli (see Capsicum) insecticides in Chilo Cheiloneurus, hyperparasitising, Cerococcus ornatus, in Tamil Nadu 6577 residues of 5582 on rice, in Bangladesh 4495 translocation of 3194
Lepidosaphes malicola on, in Armenia on sugar-cane, in Ghana 4497 Cheiloneurus fusciscapus 6577 parasitised by Cheilosia fasciata biology of 4594 in Norway 4594 Trichogrammatoidea bactrae 2169 T. simmondsi 2169 2948 Myzus cerasi on, damage caused by Chilo agamemnon in Egypt 3371, 4349 on maize, in Egypt 3371 on rice, in Egypt 3371 3982 on Allium ursinum, in Norway 4594 pest control on 2433
Petrobia latens on, in UK 1451 taxonomy of, characters distinguishing Portevinia maculata and 4594 Rhagoletis cerasi on Cheimophila, in Japan 4640 damage caused by on sugar-cane, varietal preferences of in Austria 1756 in Sicily 2446 4349 Cheiracus sulcatus descriptions of 5551 in Thailand 5551 Chilo auricilius in Switzerland 5610 Beauveria bassiana in, in Orissa 2903, in Turkey 1311
oviposition by 6474
R. cingulata on, in New York 377
R. fausta on, in New York 377 on rice, in Thailand 5551 4515 Chelaner leae cannibalism in 862 in Australia 2587 control of, biological 2904, 4515 in Eucalyptus forests, in Victoria 2587 seed harvesting by 2587 crowding as affecting development of 4515 R. indifferens on, forecasting infestations digestive enzymes in 5319 in India 2903, 3930, 4515, 5559 in Indonesia 321 chelifer, Odontomachus of 1984 Cherry, bird (see Prunus padus) Cherry, black (see Prunus serotina) Cherry, choke (see Prunus virginiana) Cheliomyrmecini, zoogeography of, phylogenetic implications of 1332 Cheloderus childreni on rice Cherry, choke (see Prunus virginiana)
Cherry, mahaleb (see Prunus mahaleb)
Cherry, morello (see Prunus cerasus)
Cherry, pin (see Prunus pensylvanica)
Cherry, sour (see Prunus cerasus)
Cherry, stored fruit), pest control in, yirradiation for 1119
Cherry, Surinam (see Eugenia uniflora)
Cherry, sweet (see Cherry)
Chevil (see Anthriscus cerefolium)
Chestnut pest control on pesticides for emergence in 1073
flight activity in 1073
in Chile 1073
on Nothofagus obliqua, in Chile 1073
traps for 1073
Cheloninae, venom apparatus in 2672
Cheloninae, damage caused by 3930, 4515 in Indonesia 321 in Orissa 5559 oviposition in 4515 parasites of, encapsulation of 291 parasitis of, circapsulation of 251
parasitised by
Carcelia corvinoides 291
Sturmiopsis inferens 862
preying on, Sturmiopsis inferens 862
seasonal abundance of 4515 Chelonus overwintering in 2549 Pectinophora gossypiella and biological control using in Arizona 3556 in California 2549, 3556 Chestnut, pest control on, pesticides for 6441 Serratia marcescens in, pathogenicity of Chestnut, horse (see Aesculus hippocastanum) 2907 Chilo infuscatellus Scirpophaga incertulas, in West Bengal 3910 Bacillus cereus in, pathogenicity of control of, insecticides for 1371 granulosis virus in, in Tamil Nadu in India 1371, 3930, 5021, 6346 Chestnut, Japanese (see Castanea crenata) Chestnut, sweet (see Castanea sativa) Spodoptera frugiperda, in Mexico 2303 Cheyletus eruditus digestive enzymes in 4231 in Irish Republic 5926
in stored grain, in Irish Republic 5926
Cheyletus trouessarti
in Irish Republic 5926 Chelonus blackburni on rice, damage caused by hosts of 2815 in India 2815 on sugar-cane in Karnataka parasitising, Earias vittella, in Karnataka in Tamil Nadu 5021, 6346 in stored grain, in Irish Republic 5926 Chick-pea (see Cicer arietinum) Chickadee, black-capped (see Parus parasitised by Apanteles diatraeae 6307 Chelonus curvimaculatus 2549, 3556 A. sesamiae 6307 preyed on by, Dermaptera, in Tamil Nadu 6346 in India 5677 parasitisng, Stomopteryx subsecivella, in Maharashtra 5677 Chelonus elaeaphilus, insecticides in, toxicity of 3814 atricapillus) Chickadee, mountain (see Parus gambeli)
Chicory (Cichorium intybus)
Otiorhynchus cribricollis on, in Italy 992 Chilo iridescent virus immune serum to 3163 Chelonus munakatae in India 3910 Chilasa clytia in India 281 in Armadillidium vulgare, replication of on cinnamon, in India 281
seasonal abundance of 281
Childion (see Dicofol, with tetradifon)
childreni, Cheloderus parasitising, Scirpophaga incertulas, in West Bengal 3910 3151 3151 cell lines, inhibiting synthesis of macromolecules 6683 Galleria mellonella, hemocyte destruction by 3163 Chelonus phthorimeaee
in USA 2501
parasitising, Keiferia lycopersicella, in
California 2501
Chemical stores, Trigonogenius globulus in,
in West Germany 3107 destruction by 3163 insect cell lines, cell fusion caused by Chile Aonidomytilus espinosai in, natural enemies of 4444 5232 Aspidiotus nerii on, natural enemies of 4570 monkey cell lines, cell fusion caused by 5232 Chemosterilants substances tested as: biological control in 4174 Porcellio scaber, replication of 3151 aristolochic acid 504 benzyl-1,3-benzodioxoles 2126 benzylphenols 2126 Cheloderus childreni in, on Nothofagus Thereuonema hilgendorfi, replication of 1073 3151 Cyclophora nanaria in, on olive 4406 proteins in 2619 purifying of 2619 Chenopodium album Euxoa spp. in 6268 forest pests in 5176 Chrysoesthia sexguttella on, in Italy 848
Harpalus rufipes on, in England 5054
Myzus persicae on, development of 396
Pemphigus fuscicornis on, development of 2022 Chilo partellus biology of 6352 control of 6352 Hellula phidilealis in, on cabbage 4406 Hemiberlesia lataniae in, natural enemies of 4570 control of 6352 economics of 2916 insecticides for 1416, 1924, 2365, 2896, 2915, 2916, 5573 fecundity in 1413 in India 1416, 1924, 1936, 2365, 2408, 2915, 2916, 3930, 5573, 6352 in South Africa 1413 Holopterus chilensis in, on Nothofagus 1073 Chenopodium ambrosioides insect enemies of, in Florida 2367 Hylastinus obscurus in, on Trifolium 932 predatory arthropods associated with, in Florida 2367 Hymenia recurvalis in, on beet 4406 Ichneumonidae in 4443 Chenopodium quinoa, Myzus persicae on, development of 3295 Metopolophium dirhodum in, on wheat 5998 on maize Opostega spp. in, on Nothofagus 1074 damage caused by 2894

		· ·
hilo partellus contd.	Chilo suppressalis contd.	China contd.
on maize contd.	on rice contd.	Odontotermes assamensis in 5004
development of 5020	varietal preferences of 3390	Orgyia antiqua in, natural enemies of
in Bihar 2365	parasitised by	5473
in Rajasthan 1924	Apanteles chilonis 1258	Ostrinia nubilalis in, natural enemies of
resistance to, evaluation of 1925	Megaselia scalaris, in Philippines 905	4993
varietal preferences of 2895	Telenomus chilocolus, in China 4993	Parnara guttata in, natural enemies of
on Pennisetum americanum, development	rearing of, techniques for 180	4993
of 5020	seasonal abundance of 3895	Pemphigidae in 2588
on rice, damage caused by 3930	traps for 894	Plutella xylostella in, on crucifers 2467
on sorghum	Chilo zacconius, fecundity in, on artificial	Pyrausta machaeralis in, on Tectona
damage caused by 6429	diets 2681	1579
development of 5020	Chilo zonellus (see C. partellus)	rice in, insect pests of 918
in India 6352 in Maharashtra 1416, 2915	Chilocolus, Telenomus	Rondotia menciana in, natural enemies of
in South Africa 1413	Chilocorinae, Perilitus coccinellae not parasitising 1886	5473 Sarcophagidae in 6129, 6130
in Tamil Nadu 5573	Chilocorus bipustulatus	Scelionidae in 4993, 5473
resistance to 2916, 5043	in Greece 3799	Tenuipalpus spp. in 6442
varietal preferences of 1936, 2408	in Israel 3800, 4560	Tetranychidae in 4866
on sugar-cane, development of 5020	in Libya 5083	Thripidae in 4867
rearing of, diets for 2894, 6427	in USŠR 2949	chinensis, Bracon
seasonal abundance of 2408	in citrus groves, effects of insecticides on	chinensis, Bruchus (see Callosobruchus
sex ratio in 1413	3800	chinensis)
Telenomus dignoides not parasitising	preying on	chinensis, Callosobruchus (Bruchus)
6308	Lepidosaphes malicola, in Armenia	chinensis, Casea (see Pteroptrix chinensis)
hilo phragmitellus	2949	chinensis, Cyrtorhinus (see Tytthus
in France 1258	Parlatoria oleae, in Greece 3799	chinensis)
on Phragmites australis, in France 1258	Planococcus citri, in Israel 3800	chinensis, Polistes
parasitised by, Apanteles chilonis 1258 hilo polychrysus	Saissetia oleae in Israel 4560	chinensis, Pteroptrix (Casea) chinensis, Trochometridium
control of	in Libya 5083	chinensis, Trochometrialum chinensis, Tytthus (Cyrtorhinus)
insecticides for 2376, 6411	seasonal abundance of 3800	Chinomethionat (see Quinomethionate)
non-target effects of 6411	Chilocorus cacti	chionaspidis, Arrhenophagus
in Bangladesh 2376, 2901, 5032	in Mexico 1647	Chionaspis salicis
in India 5559	preying on, Melanaspis glomerata, and	in USSR 1556
in Indonesia 321, 3415	biological control using, in Andhra	on ornamental shrubs, in USSR 1556
in Malaysia 322, 6423	Pradesh 4498	Chirata (see Swertia chirata)
in Philippines 3895	seasonal abundance of 1647	Chironomidae
in Thailand 325, 6411	Chilocorus rubidus	in forest streams, not affected by nuclear
on rice	in India 2820	polyhedrosis virus 6617
damage caused by 6423	preying on, <i>Macrosiphum rosae</i> , in India 2820	in rice-fields, in South Korea 3965
in Bangladesh 2901, 5032 in Indonesia 321, 3415	Chilocorus stigma	in sugar-cane plantations, blocking irrigation systems 2355
in Philippines 3895	Coccipolipus epilachnae not parasitising	on rice, in Western Australia 6421
in Thailand 325, 6411	457	preyed on by, Araneae, in Poland 2819
in West Malaysia 322	in USA 3608	Chironomus
varietal preferences of 2376	preying on, Fiorinia externa, in	control of, insecticides for 278
outbreaks of, caused by insecticides 6423	Connecticut 3608	on Azolla, in Orissa 278
seasonal abundance of 3895	seasonal abundance of 3608	on Eichhornia crassipes, in Mexico 1665
hilo sacchariphagus indicus	chilonis, Apanteles	on rice, in Egypt 3371
in India 6346	chilonis, Trichogramma	Chironomus hawaiiensis
on sugar-cane, in Tamil Nadu 6346	Chilopoda	control of, insecticides for 2355
preyed on by, Dermaptera, in Tamil Nadu 6346	in grassland, sampling of 2412 in soil, extracting of 4872	in USA (Hawaii) 2355 in sugar-cane plantations, blocking
hilo suppressalis	preying on, Achatina fulica 4983	irrigation systems 2355
anaerobic metabolism in 6050	Chilotraea auricilia (see Chilo auricilius)	Chironomus oryzae 3965
attractants for 894	Chilotraea infuscatellus (see Chilo	Chironomus plumosus
calling behaviour in, effects of age on 83	infuscatellus)	in South Korea 3965
Chilo iridescent virus in	Chilotraea polychrysa (see Chilo	in rice-fields, in South Korea 3965
proteins in 2619	polychrysus)	Chirothrips manicatus
purifying of 2619	China	in USSR 1418
chitin in, effects of pesticides on 3195	Acrididae in 238	on Bromus racemosus, varietal preference
control of	agricultural insects in, illustrations of	of 1418 Chitin
biological 1258 insecticides for 1148, 3901, 6411	Anaphothrips obscurus in, on maize 315	in Chilo suppressalis, effects of pesticides
mating disruption for 1740	Anomala corpulenta in 677	on 3195
non-target effects of 6411	Bombyx mandarina in, natural enemies of	in Oncopeltus fasciatus, diflubenzuron
diapause in 3384	5473	inhibiting synthesis of 1164
enzymes in 3384, 6050	Chilo suppressalis in, natural enemies of	in Pieris brassicae
glycerol in 4771	4993	diflubenzuron inhibition of synthesis of
glycogen in, metabolism of 3384	Clostera anachoreta in, natural enemies of	2152
in China 918, 4993	5473	polyoxin D inhibition of synthesis of
in France 1258	Coptotermes formosanus in 1357	2152
in India 5559 in Indonesia 321, 3415	Coreidae in 796, 2265 Cryptotermes spp. in 6332	in Samia cynthia larvae, synthesis during moulting of 3254
in Japan 894, 1400	Dendrolimus spectabilis in, natural	Chitinase
in Philippines 323, 905, 1740, 3895	enemies of 5145	in Bacillus coagulans, degrading
in Spain 3388	Dinoderus japonicus in, in bamboo canes	Lymantria dispar peritrophic
in Taiwan 6376	860	membrane 4895
in Thailand 325, 6411	entomology in 2166, 2189, 2233, 2625	in bacteria 2108
iridescent virus in, properties of 6683	Frankliniella tenuicornis in, on maize	in Cheyletus eruditus gut 4231
mating in	315	in microbial insecticides, degrading
effects of humidity on 5038, 6111	Gryllotalpa unispina in 677	Lymantria dispar peritrophic
effects of temperature on 5038, 6111	Haplothrips aculeatus in, on maize 315	membrane 4893
on rice	insect pests in 140 Laodelphax striatella in, on rice 3920	in Streptomyces, degrading Lymantria dispar peritrophic membrane 4895
assessing infestations of 1400	Matsucoccus matsumurae in, natural	with Bacillus thuringiensis 3609
damage caused by 6376 in China 918	enemies of 567	against, Choristoneura fumiferana
in France 1258	Melanaphis sacchari in, natural enemies of	5205
in Indonesia 321, 3415	620	Chlaenius, preying on, Cnaphalocrocis
in Philippines 323, 3895	Mythimna separata in, natural enemies of	medinalis, in Philippines 904
in Spain 3388	4993	Chlaenius pusillus
in Thailand 325, 6411	Nilaparvata lugens in, on rice 915, 2381	in USA 1394

in Sitophilus granarius, effects of

928 Chlaenius pusillus contd. in maize fields, in Iowa 1394 seasonal abundance of 1394 Chloealtis aspasma in USA 248 preyed on by, Goniopsita oophaga, in Oregon 248 Chloramphenicol, in Galleria mellonella, effects on gut flora of 5850
Chlordane (1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene) indene) against Agriotes spp., on potato 3811 Agrotis ipsilon 6168 Carpomyia vesuviana 6477 Coptotermes formosanus, in pine wood 5487 Graphognathus peregrinus 2639 Gryllodes sigillatus 6711 Heliothis armigera 1149 Heterotermes indicola, in pine wood pests of cassava 1023 pests of Citrus 5626 enantiomers of, absolute stereochemistry of 2628 in Apis mellifera, toxicity of 678 in Gryllodes sigillatus, effects of crowding on susceptibility to 6711 in pine wood, persistence of 5487 resistance to, in, Popillia japonica, in Ohio 6205 with chlorpyrifos, against, Heliothis armigera 1149 with dicrotophos, against, Heliothis armigera 1149 with endrin, against, Heliothis armigera 1149 with EPN, against, Heliothis armigera 1149 with HCH, against, Heliothis armigera 1149 with leptophos, against, Heliothis armigera 1149 with mephosfolan, against, Heliothis armigera 1149 with methomyl against, Heliothis armigera 1149 antagonistic 1149 antagonistic 1149
with phosfolan, against, Heliothis
armigera 1149
Chlordecone (1,1a,3,3a,4,5,5,5a,5b,6decachlorooctahydro-1,3,4-metheno-2Hcyclobuta[cd]pentalen-2-one)
in potato, kelevan metabolite 1863
Chlordene (see 4,7-Methano-1H-indene,
4,5,6,7,8,8-hexachloro-3a,4,7,7atetrabydro-) tetrahydro-) tetranydro-)
Chlordene epoxide (see 2,5-Methano-2Hindeno[1,2-b]oxirene, 2,3,4,5,7,7hexachioro-1a,1b,5,5a,6,6a-hexahydro-)
Chlordimeform (N'-(4-chloro-2methylphenyl)-N,Ndimethylmethanimidamide)
against Aculus schlechtendali, on apple 376 Amrasca devastans, on okra 1492 Aonidiella aurantii, on Citrus 4402 Aphis gossypii, on okra 1492 Brevipalpus californicus, on guava 989
B. pulcher on apple 953 on Citrus 952 Cnaphalocrocis medinalis, on rice 335 Earias spp., on okra 1492 E. insulana, on cotton 4384 Eutetranychus orientalis, on Citrus 2450 Heliothis spp., on cotton 5725 H. armigera, on bean 1699 Nilaparvata lugens, on rice 335 Pectinophora gossypiella, on cotton 6564 Scirpophaga incertulas, on rice 335, 5035 Spodoptera littoralis, on cotton Tetranychidae, on apple 6464 Tetranychus turkestani, on cotton 4384 T. urticae 1041 on peach 971 in cotton, residues of 1543

Chlordimeform contd.
in cotton fields, non-target effects of 4065, 4384 in Galleria mellonella, effects on foregut neuromuscular system of 1813 in Locusta migratoria, electrophysiological symptoms of 5344 in Manduca sexta, mode of action of 3196 in Photinus pyralis, mode of action of 3196 resistance to, in, Tetranychus urticae synergists for, piperonyl butoxide as 1041 with Bacillus thuringiensis Earias insulana, on cotton 4384 Heliothis armigera, on bean 1699 with bromophos, against, Spodoptera littoralis 5723 with fenvalerate against Heliothis virescens 4069 H. zea 4069 in Campoletis sonorensis, toxicity of 4069 with monocrotophos, against, Spodoptera littoralis 5723 with permethrin against

Heliothis virescens 4069

H. zea 4069 in Campoletis sonorensis, toxicity of 4069 Chlorella, diet component for, Oraesia emarginata 1321
Chlorfenethol (4-chloro-α-(4-chlorophenyl)-α-methylbenzenemethanol) with chlorfensulphide, against, Tetranychidae, on apple 6464
Chlorobenzenesulfonate) against, Tetranychidae, on apple 6464 with propargite, against, Tetranychus urticae, on Citrus 4569 with tetranactin, acaricidal activity of 6714 Chlorfensulphide ([(4chlorophenyl)thio](2,4,5trichlorophenyl)diazene)
with chlorfenethol, against, Tetranychidae,
on apple 6464
Chlorfenvinphos (2-chloro-1-(2,4dichlorophenyl)ethenyl diethyl phosphate) against Agrotis segetum 6709
Atherigona soccata, on sorghum 2404
Baliothrips biformis, on rice 890
Capnodis tenebrionis, on cherry 3996
Chilo spp., on rice 6411
C. partellus, on sorghum 5573
Cnaphalocrocis medinalis, on rice 3926
Casteblahes midiallo on Agalla 858 Cryptoblabes gnidiella, on Azolla 858 Delia brassicae on brussels sprouts 216, 3809 on radish 421, 5097 Euproctis chrysorrhoea, on Rubus 668 Heliothis armigera, on Cicer arietinum Hydrellia spp., on rice 890
H. philippina, on rice 5034
Nilaparvata lugens, on rice 5555
Nipaecoccus filamentosus, on pomegranate 4009
Nymphula responsalis, on Azolla 858
Saissetia oleae, on olive 986
Sylepta derogata, on cotton 2538
Tenebrionidae, on tobacco 1052
formulations of 421
in Blatta orientalis, effects of temperature on susceptibility to 3705
in Cicer arietinum, residues of 3012
in Musca domestica, effects of temperature on susceptibility to 3705
in radish 3012

residues of 421, 5097 toxicity of 421, 5097 in rice, not affecting germination 3905 in rice-fields, non-target effects of 6411

temperature on susceptibility to 3705 with Bacillus thuringiensis, antagonistic 668 with oil emulsion, against, Saissetia oleae, on olive 986 Chloridea obsoleta auct. (see Heliothis armigera) chlorideae, Campoletis Chlorine, in Delia antiqua, and in diet 2226 Chloris gayana, predatory arthropods associated with, in Queensland 2546 Chlormequat (2-chloro-N,N,N-trimethylethanaminium) in cotton, effects on Aphis gossypii of 4074 Chlorobenzilate (ethyl 4-chloro-α-(4chlorophenyl)-a-hydroxybenzeneacetate) Brevipalpus californicus, on guava 989 B. pulcher on apple 953 on Citrus 952 Dolichotetranychus floridanus, on pineapple 2983 Eutetranychus orientalis, on Citrus 2450 Tetranychus lombardini, on banana 988 T. urticae 1041 on peach 971 Varroa jacobsoni, on Apis mellifera 6298 in citrus groves exposure of agricultural workers to 4160 non-target effects of 975 in lemon, residues of 4160 in orange, residues of 4160 resistance to, in Tetranychus cinnabarinus, development of 6717
T. urticae 1040 synergists for, piperonyl butoxide as with dimethoate, against, Brevipalpus californicus, on Citrus 983 with malathion, against, Eutetranychus orientalis, on Citrus 2450 with methidathion in parasitic insects, toxicity of 5631 in predatory insects, toxicity of 5631 with oil emulsion with oil emulsion
in parasitic insects, toxicity of 5631
in predatory insects, toxicity of 5631
with parathion, against, Brevipalpus
californicus, on Citrus 983
Chloroform (see Methane, trichloro-)
Chlorophos (see Trichlorphon)
Chlorophylls
in almond, effects of Tetranychus
pacificus on 3992
in fruit trees, effects of aphids on 2437
in grapevine, effects of Eotetranychus
pruni on 1964
in strawberry in strawberry
effects of Tetranychus urticae on 3986
not affected by Tetranychus urticae
2426 Chloropidae in grassland, in France 3432 in maize fields, in Poland 2893 on wheat, in Ukraine 2360 on wheat, in Oktaine 2500

Chlorops oryzae
in Japan 1400
on rice, assessing infestations of 1400

Chlorops pumilionis
in Poland 3373
on wheat, damage caused by 3373

Chloropulvinaria polygonata
in Bangladesh 5087 on mango, in Bangladesh 5087 parasites of, in Bangladesh 5087 preyed on by, Spalgis epius, in Bangladesh 5087 Chloropulvinaria psidii in India 6582 on Ficus, in Tamil Nadu 6582 preyed on by, Cryptolaemus montrouzieri, in Tamil Nadu 6582

dojoot mach		925
Chlorothalonil (2,4,5,6-tetrachloro-1,3-	Chlorpyrifos contd.	Chlorpyrifos-methyl (O,O-dimethyl O-(3,5,6
benzenedicarbonitrile) with insecticides, against, pests and	against contd.	trichloro-2-pyridinyl) phosphorothioate)
diseases of Chrysanthemum 4613	Spodoptera contd. S. litura 1154	against Choristoneura occidentalis, on
Chlorotrianisene (1,1',1"-(1-chloro-1-	S. mauritia, in pastures 927	Pseudotsuga 3707
ethenyl-2-ylidene)tris[4-methoxybenzene])	Syringopais temperatella, on grain crops	pests of stored grain 2603, 3635
in technical methoxychlor 3205 Chlorphenamidine (see Chlordimeform)	1389 Tenebrionidae, on tobacco 1052	pests of stored groundnuts 3679 pests of stored wheat 6171
Chlorphoxim (7-(2-chlorophenyl)-4-ethoxy-	Tetranychus lombardini, on banana	Sitophilus oryzae, in wheat grain 595
3,5-dioxa-6-aza-4-phosphaoct-6-ene-8-	988, 2982	Spodoptera littoralis 2634
nitrile 4-sulfide) in Apis mellifera, toxicity of 1710	T. turkestani, on cotton 4384 Therioaphis trifolii 4541	Tribolium confusum, in wheat grain 595
Chlorpyrifos (O,O-diethyl O-(3,5,6-trichloro-	on lucerne 2296	in Coccinella undecimpunctata, toxicity o
2-pyridinyl) phosphorothioate)	formulations of	2634
Agriotes spp., on potato 1022, 3811	sunlight as affecting 4391 temperature as affecting 4391	Chlorthiophos (mixture of isomers including O-[2,5-dichloro-4-(methylthio)phenyl]
Agrotis spp.	UV-irradiation as affecting 4393	O,O-diethyl phosphorothioate)
on lettuce 1052	xylene as solvent in 3821	against
on maize 1052 A. ipsilon 4929, 6168	in Apis mellifera, toxicity of 1710 in banana, toxicity of 6498	Anticarsia gemmatalis, on soyabean 3007
on maize 4900	in Coccinella repanda, toxicity of 6725	Plusia spp., on soyabean 3007
A. segetum 6709 Amrasca devastans, on okra 4017	in Coccinella undecimpunctata, toxicity of 2634	Viteus vitifoliae, on grapevine 1965
Anoplolepis longipes 825	in cotton, effects on fibre quality of 227	in Apis mellifera, toxicity of 1710 Chlumetia transversa
Anthonomus signatus, on strawberry	in cotton fields, non-target effects of	biology of 4012
364 Paliotheiro hiformio on rico 200	4384 in lentils	in Bangladesh 4012
Baliothrips biformis, on rice 890 Choristoneura occidentalis, on	effects on composition of 4401	in India 4012 in Philippines 4012
Pseudotsuga 3707	residues of 4397	on mango, damage caused by 4012
Chortoicetes terminifera 6280 Dacus cucurbitae 1500	in <i>Phaseolus vulgaris</i> seeds effects on composition of 4401	Chocolate, Plodia interpunctella in, in USSI 3128
Delia antiqua, on onion 214	residues of 4397	Chocolate factories
D. brassicae	in radish, residues of 5097	Ephestia cautella in, in Switzerland 467
on brussels sprouts 216, 3809 on radish 5097	in soil, adsorption of 1161 in Spodoptera littoralis	E. elutella in, in Switzerland 4671 Plodia interpunctella in, in Switzerland
D. platura, on Phaseolus vulgaris 6230	effects of formulation on susceptibility	4671
Diabrotica spp. 6253	to 3821	Choetospila elegans, pupae of, CO2 tolerand
Diatraea spp., on maize 2304 Dicladispa armigera, on rice 6373	effects of selection pressure on susceptibility to 3045	in 1116 Choisya dumosa, Papilio cresphontes on, in
Diparopsis watersi, on cotton 4885	effects on amino acids of 4362, 4363	Texas 1064
Earias spp., on okra 4017	effects on fats of 4362, 4363	cholcinellus, Psyllaephagus
E. biplaga, on cotton 222 E. insulana, on cotton 227, 4384	effects on offspring of 4375 penetration of cuticle by 4380	Cholest-5-en-3-ol, (3β) - (cholesterol)
Elasmopalpus lignosellus, on groundnut	sublethal effects of 4368, 4376, 4377	diet component for
3528 Eleteridae on sugar cane 3880	in Vicia faba seeds effects on composition of 4401	Dermestes haemorrhoidalis 785 D. peruvianus 785
Elateridae, on sugar-cane 3880 Eriosoma lanigerum, on apple 5885	residues of 4397	Dermestidae 178
Estigmene acraea 2310	in wheat grain, effects on composition of	Lixophaga diatraeae 1316
Eudonia sabulosella, in pastures 5867 Euproctis melania 3798	4401 resistance to, in	Plutella xylostella 809 in Antheraea mylitta fat-body 4470
Formicidae 826	Popillia japonica, in New Jersey 4157	in Beauveria bassiana, no effects from
in food factories 3118	Spodoptera littoralis, mechanisms of	3720
Gryllotalpa gryllotalpa 1043 Heliothis armigera 1149	4364 Tetranychus cinnabarinus, development	in <i>Drosophila melanogaster</i> diet, effects on fecundity of 5342
Hemiberlesia rapax, on Actinidia	of 6717	in grain mites 3755
chinensis 5883	synergists for 226, 4387	in <i>Homona coffearia</i> diet, not utilised 2192
Hercinothrips bicinctus, on banana 988, 2982	with chlordane, against, <i>Heliothis</i> armigera 1149	in Laodelphax striatella
Hydrellia philippina, on rice 5034	with DDT, against, Heliothis armigera	permitting development after
Hyperodes bonariensis, on Lolium 1419	1149 with dicrotophos	destruction of symbionts 4848 sources of 732
Lipaphis erysimi, on rape 2468	against	in Nomuraea rileyi, inhibiting growth
Liriomyza sativae, on squash 1489	Heliothis armigera 1149	3720
Lobesia botrana, on grapevine 4399 Lycia hirtaria, on apple 2957	Spodoptera littoralis 225 antagonistic 225	in Pimpla turionellae accessory glands 3340
Lycoriella mali, on mushroom 4016	with endosulfan, antagonistic 487	in Tritirachium dependens, no effects
Lygus lineolaris, on strawberry 364	with endrin	from 3720
Mythimna convecta, in pastures 927 M. unipuncta, on maize 4900	against Heliothis armigera 1149	in <i>Trogoderma granarium</i> diet, selectiv uptake of 3749
Nezara viridula 1698	Spodoptera littoralis 225	fluoroacetate, (3β)-, against, Solenopsis
Nilaparvata lugens, on rice 3961, 5563	with EPN, against, Heliothis armigera 1149	invicta 3838 Cholest-7-en-6-one, 2,3,14,20,22,25,26-
Opogona sacchari, on banana 6498 Orseolia oryzae, on rice 2379	with HCH, against, Heliothis armigera	heptahydroxy-, $(2\beta,3\beta,5\beta,22R)$ -, in
Pectinophora gossypiella, on cotton	1149	Locusta migratoria eggs 1810
222, 227 Phyllophaga spp., on maize 4506	with leptophos, against, <i>Heliothis</i> armigera 1149	Cholest-7-en-6-one, 2,3,14,20,22,25- hexahydroxy-
Piezodorus guildinii 1698	with mephosfolan, against, Heliothis	$(2\beta,3\beta,5\beta,22R)$ - $(\beta$ -ecdysone;
Podosesia syringae, on Fraxinus 565,	armigera 1149	ecdysterone; 20-hydroxy-α-ecdysone)
3085 Pollinia pollini, on olive 6494	with methomyl against	in Achyranthes aspera 2844
Popillia japonica 4883	Heliothis armigera 1149	in Ajuga nipponensis 2844
Prionoxystus robiniae, on Fraxinus	Spodoptera littoralis, on cotton 487	in <i>Beauveria bassiana</i> , promoting growth 3720
3085 Pterochloroides persicae, on peach 398	in Spodoptera littoralis, sublethal effects of 4388	in <i>Bombyx mori</i>
Scirpophaga incertulas, on rice 2379	with phosfolan	developmental changes in 2222
Sphenophorus callosus, on maize 2897	against Heliothis armigera 1149	stimulating nucleic acid synthesis in mid-gut 1207
Spodoptera exigua 2310 on lucerne 2297	Spodoptera littoralis, on cotton 487	in Bombyx mori diet, for regulating
on lucerne 2297 S. frugiperda 2310, 5265	in Spodoptera littoralis, sublethal effects	development and silk production
on maize 2304 S. littoralis 223, 226, 2634, 3045,	of 4388 with pyrethroids, interactions of 4389	2844 in Calpodes ethlius hemolymph, during
3821, 4381, 4387, 4389	with tris(methylphenyl) phosphate,	larval-pupal transformation 6079
on cotton 487	antagonistic 4387	in Cyanotis vaga 2844

1621

B. thuringiensis in

effects on cell membranes of 6685

Choristoneura fumiferana contd. Choristoneura occidentalis contd. Cholest-7-en-6-one, 2,3,14,20,22,25parasites of, in British Columbia 6637 Bacillus thuringiensis in contd. hexahydroxy- contd. $(2\beta, 3\beta, 5\beta, 22R)$ - contd. mode of action of 1621 sex pheromone of, variation in responses chromosome aberrations in, detecting and in Daphnis nerii, effects on larval to 3575 melanisation of 2196 isolating of 2772 Thelohania spp. in, in British Columbia in Drosophila melanogaster control of 6637 effects on granule formation in fat-body of 3253 biological 1621, 5205, 6609, 6620, Choristoneura pinus, preyed on by, birds body of 3253
effects on vitellogenesis of 759
not affecting cyclic AMP in imaginal
disks 3278
in Drosophila melanogaster diet, effects
on fecundity of 5342
in Laodelphax striatella, permitting
moulting after destruction of
symbionts 4848
in Leptinotarsa decemlineata
not involved in regulation of
vitellogenesis 4780
not involved in vitellogenesis 2715
in Locusta migratoria 6632 2562 growth regulators for 1167 insecticide-pathogen mixtures for 6632 insecticides for 541, 1582, 2073, 3193, 3582, 5739, 6609, 6621, 6622, 6630, Choristoneura pinus pinus in USA 510, 6209 on Pinus banksiana forecasting infestations of 6209 6632 persistence of egg-mass chorions of mating disruption for 1737, 3582, 3598, 6601 outbreaks of, effects of weather on 6209 non-target effects of 1582, 2073, 6621 Choristoneura rosaceana timing of 6622 dispersal of 1275, 1286, 3573, 3582, control of, mating disruption for 4923 in USA 4923 3584, 5745 on apple, in New York 4923 Chorthippus, in Soviet Central Asia 4957 (E)-9-dodecenyl formate not affecting in Locusta migratoria Chorthippus albomarginatus effects on spermatogonial cell cycle of Entomophthora sphaerosperma in, assay biotic potential of 4821 in USSR 4821 6076 for 606 not stimulating xanthine Entomopoxvirus spp. in, strains of 5240 Chorthippus biguttulus biology of 231 entomopoxvirus in, in Ontario 6633 enzymes in 6685 dehydrogenase 3259 in *Locusta migratoria* eggs 1810 enzymes in 6685
exuviae of, phenols in 6063
flight activity in 5745
fungi in, in Ontario 6633
in Canada 1286, 1572, 1582, 1594, 1597, 1737, 2073, 3582, 5205, 5745, 5913, 6140, 6601, 6609, 6620, 6622, 6623, 6630, 6632, 6633
in USA 5748, 6140, 6596
mating in 1266
Microspopridia in, in Ontario, 6632 in Macrotermes queens and eggs 844 biotic potential of 4 in USSR 231, 4821 4821 in Macrotermes queens and eggs 844 in Manduca sexta interactions of JH and 3252 termination of diapause by 6077 in Nasonia vitripennis, effects on larval diapause of 3277 in Nomuraea rileyi, promoting growth 3720 Chorthippus brunneus 231 coloration in, effects of habitat on 777 in UK 777 Chorthippus curtipennis, in Canada 5407 Chorthippus mollis biology of 231 in USSR 231 in Oncopeltus fasciatus, diflubenzuron not affecting metabolism of 1164 in Pieris brassicae pupae, role in integumental development of 4769 in Schistocerca gregaria, developmental changes in 1809 Microsporidia in, in Ontario 6633 migration in 5913 Chortoicetes terminifera biology of 2793 mortality in, effects of stand factors on breeding sites of, detecting of 6282 5748 nuclear polyhedrosis virus in, in Ontario 6633 control of aerial spraying for 6278, 6279, 6281 biological 5951 in Tenebrio molitor 2221 effects on ionic permeability of epidermal cell junctions of 4242 on Abies balsamea damage caused by 3582, 6623 effects of fertilizers on 5777 cost of 6281 insecticides for 4529, 6276, 6277, 6278, 6279, 6280, 6281 flight activity in 6273 flight in, collection of insecticides during 6277 in Tritirachium dependens, no effects forecasting infestations of 1597 in Maine 5748 from 3720 Cholest-7-en-6-one, 2,3,14,22,25in Maine 5748
in New Brunswick 6622
in Ontario 6620, 6632
in Quebec 6609, 6630
model 6140
on Picea pentahydroxy- $(2\beta, 3\beta, 5\beta, 22R)$ - $(\alpha$ -ecdysone) hyperparasitised by, *Perilampus australis*, in New South Wales 2322 in Australia 2322, 2793, 4529, 5458, 5951, 6272, 6273, 6274, 6275, 6276, 6279, 6280, 6282, 6286 in Bombyx mori, developmental changes in 2222 in Calpodes ethiius hemolymph, during larval-pupal transformation 6079 in Dysdercus cingulatus, not affecting spermatogenesis 1808 in Locusta migratoria regulation of synthesis of 760 relation of neurosecretory protein and 6071 damage caused by 3582 in New Brunswick 6622 on *Picea glauca*, in Ontario 1594, 6620, in pastures assessing infestations of 6276 collection of insecticides by 6632 parasites of, not affected by Bacillus thuringiensis 6632 parasitised by, Leptus spp., in Maine effects of quality on 6274 in New South Wales 5458, 6279 infestations of, persistence and displacement of 6286 migration in 6273, 6274 on fodder crops, in New South Wales Pleistophora schubergi in 5842 population dynamics of 1572 model 3584, 6140 in Locusta migratoria eggs, developmental changes in 1810 in Macrotermes queens and eggs 844 in Oncopeltus fasciatus, diflubenzuron preyed on by 2793 on vegetable crops, in New South Wales 2793 not affecting metabolism of 1164 in Schistocerca gregaria, developmental changes in 1809 in Tenebrio molitor 2221 not affecting ionic permeability of epidermal cell junctions 4242 Cholesterol (see Cholest-5-en-3-ol, (3β)-) Cholesterol, 24-methylene- (see Ergosta-5,24(28)-dien-3-ol, (3β)-) Choline (see Ethanaminium, 2-hydroxy-N,N,N-trimethyl-) Cholinesterase (see Esterase, choline) chomoensis, Pemphigus
Chondrilla juncea, control of, biological 5946 birds 2562 not affecting metabolism of 1164 Calosoma frigidum, in Ontario on wheat, in New South Wales 2793 outbreaks of 2793, 6273 parasitised by, Ceracia fergusoni, in New South Wales 2322 pupae of, distinguishing sexes of 545 reproduction in 1572 sex-pheromone gland in components of 2204 components of 2204
muscles associated with 2180
sex pheromone of
effects of growth regulators on
responses to 1228, 3753
functions of 1266
responses to 2702
traps for 1597, 3582
Choristoneura occidentalis
adult behaviour in diel variation population dynamics of 5458 swarm flight behaviour in 6275 Chromaphis juglandicola control of biological 3991 threshold for 5592 descriptions of 5592 hyperparasites of, in California 3991 in Italy 5592 in USA 3991 adult behaviour in, diel variation in 3575 chondrillae, Uroleucon Choristoneura, control of, evaluating of growth regulators for 5154, 5155 insecticides for 2056, 3707 on walnut damage caused by 5592 in California 3991 parasites of, effects of insecticides on 5424 Choristoneura conflictana biology of 1593 in Canada 1593 granulosis virus in, in British Columbia 6637 in Canada 3575, 6637 in USA 2056 3991 on Populus tremuloides, in Alberta 1593 overwintering in 1593 parasites of, in Alberta 1593 parasitised by, *Trioxys pallidus*, in Italy 5592 in oSA 2006
insect growth regulators in, effects on reproduction of 5155
insecticide susceptibility in, effects of foodplant on 3707
nuclear polyhedrosis virus in, in British
Columbia 6637 Chromatography, thin-layer, for distinguishing members of aphid species groups 3319 Choristoneura fumiferana
attractants for 6601
Bacillus cereus in, mode of action of

on *Pseudotsuga menziesii*, in British Columbia 6637

ubject Index		931
hromic acid (H ₂ Cr ₂ O ₇)	Chrysobothris affinis contd.	Chrysomela scripta contd.
dipotassium salt	in USSR 1249	preyed on by, Coleomegilla maculata, in
with arsenic oxide (As ₂ O ₅), and	Chrysobothris chrysostigma	Wisconsin 6206
copper(2+) sulfate against	in France 3461 on Castanea, in France 3461	Chrysomelidae
Coptotermes acinaciformis, in	Chrysobothris distincts, on Cedrela, in	genitalia in, dissecting and mounting of
Dyera costulata wood 4129	Central America 5172	in Chandigarh 5406
Nasutitermes exitiosus, in Dyera	Chrysocarabus auronitens (see Carabus	in Georgia (USSR) 3782
costulata wood 4129	auronitens)	in Soviet Far East 151
hromobacterium miniaceum	chrysocephalus, Psylliodes	in Tahiti 1833
Agrotis exclamationis, pathogenicity of	Chrysocharis	in Taiwan 4195
2613	parasitising Agromyza oryzae, in Japan 346	in Vietnam 1199
A. segetum, pathogenicity of 2613	Taphrocerus schaefferi, in Virginia	in Yugoslavia 4860 in eucalypt forests, in Victoria 5763
hromosomes	4488	in pine forests, in Victoria 5763
Altica lythri 1768	Chrysocharis laricinellae, rearing of 530	on cabbage, damage caused by 4014
Aphididae 3728	Chrysocharis nautius	on maize
Atractomorpha similis 6283 Ceratitis capitata 2228	in Netherlands 534 parasitising, <i>Tischeria ekebladella</i> , in	effects of disking on 857
Chrysolina varians 4207	Netherlands 534	effects of monoculture on 6371
Cricula trifenestrata 4624	Chrysocharis pentheus	on rice, in Bangladesh 5032
Delia antiqua 1028, 4815	host mortality caused by 4994	on Rutaceae 5618
Drosophila melanogaster 6147	in Japan 427	on soyabean, in Missouri 459
Ephestia kuehniella 4273 Gonioctena viminalis 4207	parasitising	on sweet potato, effects of monoculture on
Gryllotalpa africana 4272	Phytomyza horticola, in Honshu 427 P. ranunculi 4994	6371 pyrethroids in, toxicity of 6216
Labidura riparia 4	Chrysocharis punctifacies	Chrysomelidial (see 2-Cyclopentene-1-
Locusta migratoria 4964	parasitising	acetaldehyde, 2-formyl-a,3-dimethyl-)
Lygaeidae 5352	Agromyza frontella	chrysomelina, Epilachna
Mylabris phalerata 5351	and biological control using	Chrysomelinae, in Ukraine, book 2753
M. pustulata 5351 Oncopeltus fasciatus 6256	in Delaware 4902 in USA 2928	chrysomphali, Aphytis
Oreina cacaliae 4207	rearing of, techniques for 2928	Chrysomphalus aonidum control of, biological 2974, 5949
Propylea japonica 4271	Chrysoclista, taxonomy of 5286	in Australia 5949
Samia cynthia 3285, 4277	Chrysodeixis chalcites	in Brazil 4003
Scarabaeidae 4269	biology of 4823	in South Africa 2974
Schistocerca gregaria 4965 Tetranychidae 4411	control of biological 4823	on Citrus
Tetranychidae 4411 Tetranychus piercei 705	timing of 447	in Brazil 4003 in South Africa 2974
T. urticae 6092	food-plants of 4823	seasonal abundance of 4003
Trichoplusia ni 4276	in Netherlands 423	spermatozoa in 4255
Trimerotropis pallidipennis 4424	in New Zealand 4823	Chrysomphalus dictyospermi
Typhlodromus occidentalis 1239	in Philippines 447	in Turkey 6482
Zonocerus variegatus 62 hrotogonus trachypterus, glycogen in,	on Capsicum, in Netherlands 423 on cucumber, in Netherlands 423	parasitised by, Aphytis melinus, in Turkey 6482
reserves of 4266	on eggplant, in Netherlands 423	Chrysomphalus ficus (see C. aonidum)
hrotogonus trachypterus trachypterus	on Vigna radiata, in Philippines 447	Chrysonotomyia formosa
hemocytes in 4747	parasites of, in New Zealand 4823	host age as affecting 4032
in India 4747	rearing of, techniques for 4823	in USA 473
Thrysalidocarpus lutescens Brassolis astyra not found on 2421	Chrysodeixis eriosoma (see C. chalcites) Chrysoesthia sexguttella	in tomato fields, effects of insecticides on 473
Opsiphanes invirae not found on 2421	biology of 848	parasitising
hrysanthemi, Plagiognathus	descriptions of 848	Liriomyza sativae 4032
hrysanthemic acid (2,2-dimethyl-3-(2-	distribution of 848	in Florida 473
methyl-1-propenyl)cyclopropanecarboxy-	food-plants of 848	Chrysopa
lic acid)	in Italy 848 on <i>Chenopodium album</i> , in Italy 848	Araneae not preying on 4919 development in, effects of temperature on
1-methylheptyl ester, (1 <i>R-trans</i>)-, photoisomerisation of 2127	parasites of, in Italy 848	4058
hrysanthemum	Chrysolina	in Mexico 1647
Brachycaudus helichrysi on, in England	in UK 708	in apple orchards, in Virginia 4919
3058	larvae of 708	in citrus groves
Bryobia cristata on, in China 4866	taxonomy of, relation of Oreina and	effects of insecticides on 4004 in Brazil 4003
Gortyna xanthenes on 993 insect pests of, in Florida 4613	4207 Chrysolina hyperici	in cotton-field borders, in Queensland
insecticide-fungicide mixtures in, toxicity	on Hypericum perforatum	2546
of 4613	and biological control using	in cotton fields
Liriomyza sativae on, in Ohio 229	in Montana 4479	effects of herbicides on 4600
L. trifolii on	in Quebec 4483	effects of insect-resistant varieties on 1047
in France 2049, 5136 in Italy 1059	on weeds, and biological control using, in Nova Scotia 2792	effects of insecticides on 4384
in Kenya 5415	Chrysolina quadrigemina	in Queensland 4058
Macrosiphoniella spp. on 3875	on Hypericum perforatum	sampling of 1550
M. sanborni on, in England 3058	and biological control using	in maize fields, in Mexico 1653
Microcephalothrips abdominalis on, in	in Montana 4479	in olive groves, effects of insecticides on 984
India 5468 Mycosphaerella ligulicola in, in Florida	in Quebec 4483 Chrysolina varians, chromosomes in 4207	in pear orchards, in Oregon 5609
4613	Chrysomela rossia	in potato fields, in Pennsylvania 4916
Myzus persicae on, in England 3058	on Antirrhinum majus, development of	in safflower fields, in Mexico 2298
pest control on	5506	parasitised by, Acridencyrtus ambiguous,
biological 5859	on Mentha piperita, development of	in Karnataka 4447
insecticides for 1695 tetranactin for 6714	5506 Chrysomela scripta	preying on Planococcus citri, in Queensland 3510
Phytomyza syngenesiae on, in Netherlands	biology of 550, 6206	Prays oleae, in Spain 984
220	development in, effects of temperature on	Saissetia oleae, in Libya 5083
Spodoptera exigua on, in Netherlands	550	Toxoptera citricida, in Brazil 4004
220	in USA 550, 6148, 6206	rearing of, techniques for 5123
Tetranychus urticae on, in Florida 4613	on Populus × canadensis aggr.	reproduction in, effects of temperature on 4058
hrysanthemum segetum, Diptera on, in Crimea 3304	damage caused by 550, 6148 development of 6206	seasonal abundance of 4003
hrysididae, in North America 6317	parasites of, in Wisconsin 550	Chrysopa arcuata
hrysobothris, on Pinus, in Zambia 5165	parasitised by, Schizonotus latus, in	in Australia 2546
hrysobothris affinis	Wisconsin 6206	in cotton-field borders, in Queensland
biology of 1249	predators of, in Wisconsin 550	2546

Chrysopa boninensis	Chrysopa peria conta.	Cicademoae conta.
biology of 3041	preying on contd.	on rice, in Egypt 889
in Taiwan 3316	Myzus persicae contd.	traps for 379
in Zimbabwe 3041	and biological control using, in	Cicadina, in Turkestan 2346
in cotton fields, in Zimbabwe 3041	France 2032	Cicadulina bipunctata bipunctata
insecticides in, toxicity of 3041	Trialeurodes vaporariorum 4987	in Egypt 3394
preying on	Chrysopa prasina (see C. ventralis)	sex ratio in 3394
aphids 3041	Chrysopa pudica	Cicadulina bipunctella zeae (see C.
	in Zimbabwe 3041	bipunctata bipunctata)
Hysteroneura setariae, in Taiwan 3316		Cicadulina mbila, maize streak virus in,
Lepidoptera 3041	in cotton fields, in Zimbabwe 3041	
Chrysopa carnea	Chrysopa rufilabris	transmission of 310
aestivation in 95	antennae in, sense organs on 1193	Cicer
antennae in, sense organs on 1193	courtship in 4903	pests of
attractants for 5273	larval diet as affecting 4245	in Afghanistan 5678
biology of 835	mating in 4903	in Ethiopia 5678
coloration in 5085	prey of 4245	in Turkey 5678
courtship in 4903	Chrysopa septempunctata	Cicer arietinum
	in USSR 3376	arthropod pests of
diapause in 74, 95, 5085	preying on, grain aphids, in Kazakhstan	in Andhra Pradesh 4722
diel activity in 3537	3376	in Egypt 4357
fecundity in, effects of food sprays on	Chrysopa signata 4058	carbaryl in, residues of 3012
250	Chrysopa ventralis	chlorfenvinphos in, residues of 3012
flight activity in 95	biology of 6306	Heliothis spp. on, in Mexico 1671
genetic improvement of 4806	in Bulgaria 6306	H. armigera on
in Chile 4570	preying on, Aphididae, in Bulgaria 6306	in Delhi 3012
in Egypt 1042, 4350	Chrysoperia carnea (see Chrysopa carnea)	in India 3418
in France 5085	Chrysophtharta m-fuscum, on Eucalyptus,	in Karnataka 5679
in Iraq 3451	not affected by oil content 6634	in Madhya Pradesh 2021
in Israel 1037, 3800	Chrysopidae	H. zea on, in Mexico 2302
in USA 250, 2528, 3537, 5273	in Ukraine 5484	legume yellows virus in, infectivity of
1 TIMES AND C	in USSR 1345	3003
in USSR 3376 in Yugoslavia 5964	in almond orchards, in California 3994	
in rugoslavia 5964 in cotton fields		nicotine in, toxicity of 5258 Spodoptera spp. on, in Mexico 1671
	in apple orchards, effects of pesticides on	
effects of insecticides on 1042	5072	S. exigua on, in Mexico 2302
in Arizona 5273	in cabbage fields, effects of Bacillus	Cicer arietinum fields, parasitic insects in,
in lucerne fields	thuringiensis on 5839	Andhra Pradesh 6310
in California 250	in citrus groves, effects of pesticides on	Cicer arietinum (stored seeds)
in Iraq 3451	975	Callosobruchus analis in, oviposition by
in olive groves, in France 5085	in oak forests, not affected by Bacillus	5827
in potato fields, in Pennsylvania 3537	thuringiensis 3098	C. maculatus in, varietal preferences of
mating in 4903	in potato fields, in Pennsylvania 3537	5831
overwintering in 95	preying on	insecticides in, persistence of 5228
preying on	Aphidoidea, in Austria 4451	pest control in
Aphis gossypii 3040	grain aphids	cottonseed oil extracts for 663
Aspidiotus nerii, in Chile 4570	in England 1388	paraffin oils for 4132
grain aphids, in Kazakhstan 3376	in Kazakhstan 3376	Rhyzopertha dominica in, in Haryana
Gymnoscelis rufifasciata, in Egypt	Psylla pyri, in France 5607	4116
4350	chrysorrhoea, Euproctis	Tyroborus lini in, in Haryana 4116
Heliothis spp., in Mississippi 2528	chrysos, Habrocytus (see Pteromalus	cichorii, Uroleucon
H. armigera 835	chrysos)	Cichorium intybus (see Chicory)
in Israel 1037	chrysos, Pteromalus (Habrocytus)	Cicindela (See Chicory)
Hemiberlesia lataniae, in Chile 4570	chrysostigma, Chrysobothris	compound eyes in 1227
Planococcus citri, in Israel 3800	Chrysoteuchia topiaria	in Argentina 2669
	attractants for 2410	in Australia 19
Sitotroga cerealella 169, 4455	control of, mating disruption for 2410	
Tetranychus urticae 3040		walking in, apparatus for investigating
rearing of	in USA 2410	orientation during 6133
diets for 169	on Poa, in Oregon 2410	Cicindela sylvatica, walking in, apparatus
techniques for 4455	traps for 2410	for investigating orientation during
group of, in Cayman Islands 1836	chrysotheme, Colias	6133
Chrysopa congrua	Cicada	Cicindelidae
in Zimbabwe 3041	in Turkey 1184	keys to, bibliography 2828 preyed on by, birds 2827
in cotton fields, in Zimbabwe 3041	on Populus tremuloides, damage caused	
Chrysopa downesi, diapause in 74	by 3084	vision in 6073
Chrysopa dubitans	Cicada lodosi	Cicindelini, in Quebec, bibliography 6733
in USSR 3376	sp. nov., description of 1184	Cienfuegosia hildebrandtii
preying on, grain aphids, in Kazakhstan	in Turkey 1184	cotton bollworm on, in Swaziland 2159
3376	on Pinus, in Turkey 1184	Diparopsis castanea on 2160
Chrysopa externa, in Cayman Islands 1836	Cicada mordoganensis	Ciliata, Colpidium campylum 6708
Chrysopa formosa	sp. nov., description of 1184	ciliata, Corythucha
in USSR 3376	in Turkey 1184	ciliatus, Dacus
preying on	on olive, in Turkey 1184	cilicrura, Hylemya (see Delia platura)
grain aphids, in Kazakhstan 3376	Cicada orni	cilicrus, Clinodiplosis
Macrosiphum euphorbiae, and	taxonomy of	cilipeda, Gonia
biological control using, in France	characters distinguishing C. lodosi and	cilium, Spodoptera
2032	1184	Cimbex connatus
Myzus persicae, and biological control	characters distinguishing C.	biology of 4650
using, in France 2032	mordoganensis and 1184	in Poland 4650
Chrysopa nigricornis, antennae in, sense	Cicadella spectra (see Cofana spectra)	on Alnus glutinosa, in Poland 4650
organs on 1193	Cicadella viridis	parthenogenesis in 4650
Chrysopa oculata	parasites of, alternative hosts of 5512	Cimbex femoratus
antennae in, sense organs on 1193	parasitised by, Anagrus incarnatus 5512	biology of 6605
courtship in 4903	Cicadellidae	in USSR 6605
mating in 4903	control of, insecticides for 3019, 3816	on Betula, in USSR 6605
Chrysopa perla	in rice-fields, in Egypt 3394	Cimbicidae, in Lithuania 5387
biology of 4987	on Citrus, in Spain 3505	cimiciformis, Paracletus
in Bulgaria 4987	on cotton, in Egypt 3816	cimicoides, Ilyocoris (Naucoris)
in USSR 1442		cimicoides, Naucoris (see Ilyocoris
	on Festuca arundinacea, in Missouri	
preying on		cimicoides)
Byturus tomentosus, in USSR 1442	on Galinsoga, in Americas 4487	Cinara, on conifers, in Italy 2082
Macrosiphum euphorbiae, and	on grasses, effects of plant structure	Cinara abieticola (see C. confinis)
biological control using, in France	complexity on 4528	Cinara confinis
2032	on orange, in Morocco 1470	in Netherlands 533
Myzus persicae 4987	on potato, in Rajasthan 3019	in dwellings, in Netherlands 533

roject index		93
inara confinis contd.	Cirsium arvense	Citrus contd.
on Abies koreana, in Netherlands 533	Bathyplectes curculionis on, nectar-feeding	arthropod pests of contd.
inara cronartii	by 6243	in Kenya 4181
biology of 557	biological control of 5924	in New South Wales 2161
in South Africa 557, 695	Ceutorhynchus litura on, and biological	in Saudi Arabia 1958
on Pinus, in South Africa 557, 695	control using, in Montana 4479	in South Africa 2973, 2974
overwintering in 557	Urophora cardui on, and biological	in Yugoslavia 1463
control of, insecticides for 1077	control using, in Quebec 4483	Bathycoelia thalassina on, in Ghana
in Italy 1077	Cirsium kagamontanum, Henosepilachna pustulosa on, in Honshu 276	3053 Perminia alteriando en la Italia 6024
on Cupressus arizonica, damage caused by	Cirsium vulgare	Bemisia citricola on, in Italy 6024 Brevipalpus californicus on
1077	Ceutorhynchus trimaculatus on,	in Egypt 978
on Cupressus sempervirens, damage	development of 5010	varietal preferences of 6487
caused by 1077	Urophora stylata on, and biological	B. phoenicis on, in Punjab 2451
inara juniperi	control using, in Quebec 4483	Ceratitis capitata on, in Argentina 648
in USSR 1177	Cisaberoptus kenyae	Ceroplastes floridensis on, in Libya 35
on Juniperus, in Tadzhikistan 1177	descriptions of 1480	Chrysomelidae on 5618
parasitised by, Pauesia juniperina, in	in Sudan 1480	Chrysomphalus aonidum on, in Brazil
Tadzhikistan 1177 inara pilicornis	in Thailand 1480	4003
in UK 5147	on mango, damage caused by 1480 cistellata, Apsylla	C. dictyospermi on, in Turkey 6482 Cicadellidae on, in Spain 3505
on Picea abies, in Northern Ireland 5147	Citral (see 2,6-Octadienal, 3,7-dimethyl-)	citrus stubborn disease, causal agent in,
on Picea sitchensis, in Northern Ireland	citrella, Phyllocnistis	California 5630
5147	citri, Contarinia	citrus tristeza virus in
oviposition in 5147	citri, Dialeurodes	aphid transmission of 2103
inara tujafilina	citri, Diaphorina	in California 5629
in Netherlands 533	citri, Neophyllobius	Coccidae on 3825
on Thuja orientalis, in Netherlands 533	citri, Panonychus	in Greece 5622
inchonan-9-ol, 6'-methoxy-, (8\alpha, 9R)-, deterring oviposition by Anastrepha	citri, Phyllocoptruta	Coccus hesperidum on, in Georgia
suspensa 4832	citri, Planococcus citri, Prays	(USSR) 2453 Contarinia okadai on, in Japan 6483
ncta, Illeis	citri, Scirtothrips	Curculionidae on, in Florida 2971
nctella, Meliscaeva (Syrphus)	citri, Typhlodromus	Dacus dorsalis on, in Taiwan 934
nctellus, Syrphus (see Meliscaeva cinctella)	citri, Unaspis	Dasychira mendosa on, in Punjab 241
ncticeps, Nephotettix	Citric acid (see 1,2,3-Propanetricarboxylic	Dialeurodes citri on
nctipennis, Closterocerus	acid, 2-hydroxy-)	in Florida 979
nctipes, Forcipomyia	citricida, Toxoptera	in Italy 3490, 3491
nctus, Allantus	citricola, Aphis	in Maharashtra 5625
nctus, Cephus	citricola, Bemisia	Diaphorina citri on, in Réunion 694,
nctus, Xylophagus	citrifolii, Calacarus	1467, 5077
nerascens, Locusta migratoria nerea, Athrycia	citrifolii, Dialeurodes citrifolius, Amblyseius (see Euseius	Diaprepes abbreviatus on assessing infestations of 2701
nerea, Nepa	citrifolius)	development of 4556
nerosella, Euzophera	citrifolius, Euseius (Amblyseius)	in Florida 6484
ngulata, Rhagoletis	citrina, Aonidiella	Empoasca spp. on, in Japan 2972
ngulatus, Dysdercus	Citrinin, Tribolium confusum responses to	Eutetranychus banksi on, in Texas 648
ngulifer, Oncopeltus	6179	E. orientalis on
nnabarinus, Tetranychus	citrinus, Aphytis (see A. aonidiae)	in Egypt 2450
nnamomeus, Aradus	citrinus, Aspidiotiphagus	in Haryana 267
nnamomi, Aulacaspis (see A. tubercularis)	Citrobacter, in, Reticulitermes flavipes, in	in Madhya Pradesh 4295
innamomum zeylanicum (see Cinnamon)	hind-gut 4464	Fiorinia theae on, in Assam 1057 Indarbela quadrinotata on, varietal
innamon (Cinnamomum zeylanicum) insect pests of, in India 281	Citronella oil, in Ascosphaera apis, inhibiting growth 3683	preferences of 2420
innamon (stored bark), Lasioderma	Citrullus vulgaris (see Watermelon)	insect pests of, in Cyprus 1761
serricorne in, development of 2608	Citrus (see also English names of individual	Kilifia americana on, in Texas 704
inquefoil (see Potentilla canadensis)	species and hybrids)	Lepidosaphes beckii on
ionus hortulanus	Aleurocanthus woglumi on	in Brazil 4003
in India 856	dispersal of 2975	in Egypt 4338
on Celsia coromandeliana, in Uttar	distribution pattern of 4567	Macrosiphum euphorbiae on, in Italy
Pradesh 856	in Florida 975, 1465, 2979, 3488,	3492
seasonal abundance of 856	4005, 4566	methidathion in, residues of 974
Culex quinquefasciatus, flight activity	in Mexico 1652 in Texas 1987, 1988	Myzus persicae on, in Italy 3492 Neoaliturus tenellus on, in California
2255	oviposition by 2976	5630
Cydia molesta, sex attraction 3298	Aleurothrixus floccosus on	Pachnaeus litus on, in Florida 6484
C. saltitans, activity 2739	assessing infestations of 3498, 3499	P. opalus on, in Florida 6484
Drosophila pseudoobscura, eclosion 2255	in Mexico 1652	Panonychus citri on
Mamestra brassicae, emergence 418	in Spain 3493, 3494, 3495, 3496, 3497	development of 3503
Oncopeltus fasciatus	Aleyrodidae on 3825	dispersal of 3503
mating 1269	Anastrepha ludens on, in Mexico 1666	in California 402 in Texas 6488
Papilio machaon, oxygen consumption	Aonidiella aurantii on in Arizona 5638	Pantomorus cervinus on 5081
1797	in Chile 4174	Papilio spp. on, in Ghana 5360
Pieris brassicae, oxygen consumption	in Egypt 4336, 4337, 4338	P. cresphontes on 1064
1797	in South Africa 981, 1989, 2452	P. demoleus on, in Qatar 6128
in continuous light 2255	in Turkey 6482	P. protenor on, in Japan 4562
irculifer tenellus (see Neoaliturus tenellus)	removal from fruit of 1990	P. xuthus on
rcumflexa, Cornutiplusia (see Syngrapha	A. citrina on, in Turkey 6482	in Japan 6485
circumflexa)	A. orientalis on, in Saudi Arabia 2969	in Kyushu 6486
rcumflexa, Syngrapha (Cornutiplusia)	Aphididae on, in Greece 6302	Parlatoria ziziphus on, in Brazil 2980 pest control on
sirphis compta (see Spodoptera compta)	Aphis citricola on in Israel 5621	biological 2161, 5930, 5949
firphis unipuncta (see Mythimna unipuncta)	in Italy 941, 3492	in Florida 6481
irrospiloideus japonicus (see Stenomesius	in Japan 5082	in India 5626
japonicus)	in Karnataka 401	in South Africa 2452, 2974, 4007
irrospilus argei	A. gossypii on	insecticide injections for 5627
in USA 4485	in Italy 3492	integrated 4006
parasitising, Arge humeralis, in Florida	in Japan 5082	pesticides for 2629, 2630, 2631, 644
4485	Archips rosanus on	soil injections of insecticides for 456
rsiiacanthoidis, Aphis fabae	damage caused by 5628	spray formulations for 981
control of biological review 5505	in Sicily 5628 arthropod pests of	Phyllocoptruta citri on, in Egypt 403 P. oleivora on, in Brazil 5623
control of, biological, review 5505	in Combin 4192	Pinneenie genidistrae on in Brazil 400

Citrus contd.	Citrus tristeza virus 4690	Clavigralla scutellaris, taxonomy of,
Planococcus spp. on 2852	in	Clavigralla brevirostris distinct from
Prays citri on, in France 1779	Aphis citricola, transmission of 2103	698
Pseudaonidia trilobitiformis on 5088 Pseudococcidae on, in Chile 4174	A. craccivora not transmitted 2978	Clavigralla shabadi sp. nov., description of 698
Pseudococcus calceolariae on, in Italy	transmission of 2103	in Zaire 698
5633	A. gossypii, transmission of 2103,	taxonomy of, misidentified as C. horrida
P. comstocki on, in California 5079	2978, 5629	in West Africa 698
Psocoptera on, sampling of 1848	Citrus spp.	Clavigralla tomentosicollis
Rubroscirus vestus on, in South Africa 5	aphid transmission of 2103	nymphal development in, effects of
Saissetia oleae on	in California 5629 Cuscuta reflexa, transmission of 2978	crowding on 3008 taxonomy of, transferred from
distribution pattern of 4561 in Chile 4174	Myzus persicae	Acanthomia 698
in Israel 4560	not transmitted 2978	Clavigrallini
in Italy 2455	transmission of 2103	in Africa 698
Spiroplasma citri in 6668	Toxoptera aurantii, transmission of	taxonomy of 698 Clematis vitalba, Myzus varians on, in Ital
Spodoptera littoralis on, in Egypt 976,	2103, 2978	4554
977	T. citricida, transmission of 2103,	Cleome spinosa, Artogeia rapae on,
Tetranychus urticae on, in Egypt 976, 977	2978 vectors of 401	metabolism of polyprenols by 2210
Thysanoptera on, wind damage attributed	Citrus unshiu, Panonychus citri on,	Cleomeprenols (see Isoprenoids, polyprenols)
to 5078	development of 719	Cleonyminae, in Indian subcontinent 702
Toxoptera aurantii on, in Italy 3492	Cixiidae	Cleora herbuloti
T. citricida on	in Florida 20	on Eucalyptus, in southern Africa 5169
in Brazil 4004	in New Zealand 4210	on Pinus patula, in southern Africa 51
in Israel 2103 in Japan 5082	in rice-fields, in Egypt 3394 on rice, in Egypt 889	Clepsis spectrana control of, insecticides for 220
Trioza erytreae on	cixiiformis, Myiomma	in Netherlands 220
in Réunion 1467	Cladosporium cladosporioides, in, wheat	on rose, in Netherlands 220
in South Africa 1469	grain, interactions with other pests of	Cleptes, parasitising, Tenthredinidae, in
Unaspis citri on, in New Hebrides 2935	4668	North America 6317
U. yanonensis on, in Japan 1468 Citrus aurantifolia (see Lime (Citrus	clandestinus, Synergus clareae, Tropilaelaps	Cleridae in pine forests, in New Zealand 4875
aurantifolia))	clarioralis, Dioryctria	traps for 4875
Citrus aurantium (see Orange, sour)	claripalpis, Paratheresia	Clerodendron inerme, antifeedant activity
Citrus greening disease	claripennis, Euphorocera	extracts of 4371
causal agent	clarki, Imbrasia cytherea	Clerodendron siphonanthus
in Citrus spp., in Réunion 1467	clarki, Nudaurelia cytherea (see Imbrasia cytherea clarki)	Brevipalpus phoenicis on damage caused by 5014
Diaphorina citri, transmission of	clarus, Xylocoris	development of 35
694, 1467	Clausenia, in Palaearctic region 4981	Diacrisia obliqua on, feeding by 5015
Trioza erytreae, transmission of	Clausenia lansium, Aleurocanthus woglumi	Eotetranychus uncatus on, damage cause
1467, 1469 vectors of 6669	on, development of 4005 Clausenia mariae	by 5014 Clerodendron splendens, antifeedant activit
control of, vector control for 1467, 1469	sp. nov., description of 4981	of extracts of 4371
Citrus groves	in USSR 4981	Clethrionomys glareolus, preving on.
Aeolothrips spp. in, in Cyprus 5078	parasitising, Peliococcus mesasiaticus, in	Cephalcia lariciphila, in Wales 5159
Chrysopa spp. in, in Brazil 4003, 4004	Turkmenia 4981	Cletomorpha, in Arunachal Pradesh 1839
Cycloneda sanguinea in, in Brazil 4004 insecticides in, exposure of agricultural	clavana, Olethreutes clavata, Coruna	Cletus bipunctatus distribution of 2265
workers to 4160	clavata, Plagiometriona	in India 1839, 1840, 2265
parasitic insects in	clavatus, Aeropedellus	Cletus fuscescens
effects of insecticides on 3800	clavatus, Riptortus	in Nigeria 454
effects of pesticides on 975	clavicornis, Parechthrodryinus	on Vigna unguiculata, in Nigeria 454
parathion in non-target effects of 4007	clavifer, Helopeltis clavifex, Rabdophaga	Cletus punctiger distribution of 2265
residues of 973	clavigera, Holymenia	flight activity in 6108
Pentilia egena in, in Brazil 4003	Clavigralla, taxonomy of, Acanthomia as	in India 2265
Phytoseiidae in, effects of acaricides on	synonym of 698	in Japan 6108
5623	Clavigralla brevirostris distribution of 698	Cletus punctulatus distribution of 2265
predatory arthropods in, effects of pesticides on 975	taxonomy of	in India 1839, 1840, 2265
predatory insects in, effects of insecticides	distinct from C. scutellaris 698	Cletus unifasciatus
on 3800, 4004	transferred from Acanthomia 698	in Nigeria 454
Citrus jambhiri	Clavigralla elongata	on Vigna unguiculata, in Nigeria 454
Aleurocanthus woglumi on, development of 3501, 4565	in Zaïre 698 taxonomy of, misidentified as C. horrida,	Climate, global 5916 Clinodiplosis cilicrus
Dialeurodes citri on, development of	in southern and East Africa 698	descriptions of 5190
4565	Clavigralla gibbosa	in Netherlands 5190
Citrus limettioides, Aleurocanthus woglumi	biology of 5674	on Betula, in Netherlands 5190
on, development of 3501 Citrus limon (see Lemon)	control of, cultural 2488	Clinodiplosis oleisuga biology of 5641
Citrus limonia, Aleurocanthus woglumi on,	descriptions of 5674 distribution of 796	in Jordan 5641
development of 3501	in India 796, 2488	on olive, in Jordan 5641
Citrus macrophilla, Aleurocanthus woglumi	on Cajanus cajan, effects of intercropping	preyed on by, Pyemotes ventricosus, in
on, development of 3501 Citrus paradisi (see Grapefruit)	on 2488 parasitised by, Gryon fulviventris 5288	Jordan 5641
Citrus-picking bins	Clavigralla horrens (see Gralliclava horrens)	clisiocampae, Ooencyrtus clisiocampae, Telenomus
pest control in 5619	Clavigralla horrida	Clitoria ternata, Tetranychus piercei on, in
Pseudococcus comstocki in 5619	control of, insecticides for 5104	Philippines 705
Citrus pulp, bait component for, Atta	in Nigeria 5104	Clostera anachoreta
sexdens 244 Citrus reticulata (see Mandarin and	in South Africa 698 in Zimbabwe 698	in China 5473 parasitised by, <i>Telenomus closterae</i> , in
tangerine)	on Vigna unguiculata	China 5473
Citrus sinensis (see Orange)	in Nigeria 5104	Clostera cupreata
Citrus (stored fruit), insecticides in,	resistance to 4585	descriptions of 1090
Citrus stubborn disease causal agent (see	taxonomy of	genitalia in 3247
Citrus stubborn disease, causal agent (see Spiroplasma citri)	Clavigralla elongata misidentified as, in Africa 698	taxonomy of, characters distinguishing C fulgurita and 1090
, , ,	C. shabadi misidentified as, in Africa	Clostera fulgurita
	698	descriptions of 1090
	transferred from Acanthomia 698	genitalia in 3247

iojeci index		933
lostera fulgurita contd.	Cnaphalocrocis medinalis contd.	Cnidosporidia contd.
taxonomy of, characters distinguishing C.	on rice contd.	Unikaryon minutum 2578
cupreata and 1090	in Japan 4511	Vairimorpha necatrix 1626, 2041, 3380,
osterae, Telenomus	in Karnataka 5557	3686, 3890, 4688
losterocerus, parasitising, Agromyza	in Kyushu 1409	coagulata, Homalodisca
oryzae, in Japan 346	in Orissa 3392	Coal heaps, reclaimed
losterocerus cinctipennis	in Philippines 323, 904	Acari in, in England 3424
in Belize 1071	in Punjab 5553	Collembola in, in England 3424
parasitising, Neodiprion excitans, in Belize	in Sri Lanka 324	coarctata, Delia (Hylemya; Leptohylemyia)
1071	in Tamil Nadu 335, 3941	coarctata, Hylemya (see Delia coarctata)
losteroviruses 4690	in Uttar Pradesh 3945	coarctata, Leptohylemyia (see Delia
othing, Formicidae in, in Bermuda 3837	in West Bengal 3949	coarctata)
love (Syzygium aromaticum) love oil, in Tyrophagus putrescentiae diet,	in West Malaysia 322 resistance to 3922	Coccidae control of
effects on development of 6172	screening for 3387	insecticides for 220
lover (see Trifolium)	varietal preferences of 1933, 3932,	removing infested material for 5626
lover, bur (see Medicago hispida)	3933, 5550, 6415	excretory behaviour in 6103
lover club leaf, causal agent, vectors of	ovarian development in 6382	in South Africa 4205
6669	parasites of	on Acacia ataxacantha, in South Africa
lover, Egyptian (see Trifolium	in Philippines 904	258
alexandrinum)	in Sri Lanka 324	on Citrus 3825
lover fields	parasitised by	in Greece 5622
arthropods in, in Irish Republic 3436	Apanteles spp.	in India 5626
parasitic insects in, in Egypt 4355	in Kyushu 1409	on mulberry, in India 378
pollinators in, in Egypt 4355	in Orissa 3392	on olive, in Mediterranean region 3506
predatory insects in, in Egypt 4355	Brachymeria spp., in Orissa 3392	on Shorea talura, in Karnataka 1359
lover phyllody, causal agent, in, Galleria	Trathala flavoorbitalis, in Kyushu 1409	tended by, Oecophylla smaragdina, in
mellonella, pathogenicity of 5836 lover, red (see Trifolium pratense)	predators of, in Philippines 904	Karnataka 1359
lover, subterranean (see Trifolium	rearing of, techniques for 897, 3387	Coccidencyrtus, parasitising, Psylla pyricola, in Ontario 5074
subterraneum)	seasonal abundance of 1409, 2900, 3949	Coccidophilus, in West Indies 249
lover (subterranean) red leaf virus	Serratia marcescens in, pathogenicity of	Coccidulinae, Perilitus coccinellae not
in	2907	parasitising 1886
Aulacorthum solani, in New Zealand	sugar sources of 4517	coccinea, Pyrochroa
1504	cnaphalocrocis, Trichomma	Coccinella
lentil, in New Zealand 1504	cnejus, Euchrysops	feeding behaviour in 2817
Lupinus spp., in New Zealand 1504	Cnephasia	preying on, Hysteroneura setariae, in
pea, symptoms of 1504	on wheat, in Egypt 3371	Taiwan 3316
Phaseolus vulgaris, symptoms of 1504	parasitised by, Hypomicrogaster tiro, in	Coccinella arcuata (see also Harmonia
soyabean, in New Zealand 1504	Egypt 3371	octomaculata)
Trifolium spp., in New Zealand 1504	preyed on by, Carpodacus erythrinus, in	in India 886
Vicia faba, symptoms of 1504	Finland 2264	in Malaysia 3407, 3408
vectors of 1504	Cnephasia pasiuana	in rice-fields, effects of insecticides on
lover, white (see Trifolium repens) lover (white) fields, Berytinus minor in, in	biology of 5026 control of	3407 preying on
North America 2574	insecticides for 5026	Nephotettix nigropictus, in Karnataka
lover yellows virus 4690	timing of 5026	886
lubionidae, in forests, effects of acephate	in Austria 5026	Nilaparvata lugens
on 2073	in Bulgaria 5026	and biological control using, in Tamil
ypealis, Idioscopus	in Egypt 5026	Nadu 342
ypeata, Draeculacephala	on wheat	in Karnataka 886
ytia, Chilasa	damage caused by 5026	in West Malaysia 3408
lytiomya helluo	forecasting infestations of 5026	Coccinella californica
hosts of, defence mechanisms of 3264	Cnephasia pumicana	prey dispersal as affected by 1506
in USSR 3264	biology of 4502	preying on, Acyrthosiphon pisum 1262,
parasitising, Eurygaster integriceps, in	control of	1506 Coccinella novemnotata, Coccipolipus
Caucasus 3264 naphalocrocis medinalis	insecticides for 4502 threshold for 4502	epilachnae not parasitising 457
biology of 4511	timing of 4502	Coccinella repanda
control of	in France 4502, 5026	in Australia 2546
biological 3941	on barley, in France 4502	in Taiwan 3316
insecticide-pathogen mixtures for 3941	on oats, in France 4502	in cotton-field borders, in Queensland
insecticides for 335, 3926, 3941, 3942,	on rye, in France 4502	2546
3945, 5557	on wheat, in France 4502	insecticides in, toxicity of 6725
fat-body in 6382	Cnephasia stephensiana	parasitised by Perilitus coccinellae 1886
in Bangladesh 5032	attractants for 3235	preying on, Hysteroneura setariae, in
in China 918	in Czechoslovakia 3235	Taiwan 3316
in India 335, 1933, 2900, 3392, 3922,	Cnidosporidia 4652, 5495, 5873, 6223	taxonomy of, Harmonia octomaculata
3932, 3933, 3941, 3945, 3949, 5550,	Amblyospora 613 Nosema 1638, 1904, 5238, 5863	misidentified as, in Karnataka 1888 Coccinella repanda transversalis (see C.
5553, 5557, 6415 in Indonesia 3415	N. acridophagus 4133	repanda)
in Japan 1409, 4511, 6382	N. algerae 613, 1631	Coccinella septempunctata
in Malaysia 322	N. apis 4439	biology of 246, 2236
in Philippines 323, 904	N. bombycis 2109, 5241	Coccipolipus epilachnae not parasitising
in Sri Lanka 324	N. cerasivorana 5842	457
in Taiwan 6376	N. cuneatum 4133	descriptions of 1775
insecticides in	N. disstriae 617	diapause in 103
larvicidal activity of 3942	N. fumiferanae 6633	head capsule in 5302
ovicidal activity of 3942	N. heliothidis 1131	in Bulgaria 1462
larval development in, effects of	N. kovacevici 1104	in Czechoslovakia 103, 1918, 5201
temperature on 3386	N. locustae 237, 929	in India 3416, 3542, 5469
mating in 6382	N. mesnili 5841, 5862	in Iraq 3451 in UK 4998
migration in 2233	N. operophtherae 546 N. pyraustae 306	in USA, introductions of 3344, 4984
on Leersia hexandra, in Orissa 3392 on rice	N. whitei 1618, 1631	in USSR 3376
damage caused by 6376	Octosporea muscaedomesticae 1631	in Eruca sativa fields, in Punjab 3542
effects of fertilizers on 3933	Perezia pyraustae 5534	in grain fields, population density of
effects of plant growth stage on 3386	Pleistophora 4688, 5842, 6633	1918
in Asia 900	P. carpocapsae 5242	in lucerne fields, in Iraq 3451
in Bangladesh 5032	P. hylobii 3080	in woodland, in Czechoslovakia 5201
in Bihar 2900	P. schubergi 546, 1104, 5242	insecticides in, toxicity of 1712
in China 918	Thelohania 5842, 6633, 6637	ovarian development in 2183
in Indonesia 3415	T. cheimatobiae 546	overwintering in 2733

in potato fields, in Pennsylvania 3537

```
Coccinella septempunctata contd.
parasitised by, Perilitus coccinellae 1886
                                                                                                       Coccinellidae contd.
                                                                                                                                                                                                               Coccus viridis
                                                                                                             in sugar-cane plantations, in Egypt 4356
                                                                                                                                                                                                                    control of
     photoperiodism in 103
prey detection by 6318
                                                                                                             in walnut orchards, in Italy 5592
                                                                                                                                                                                                                        biological 5236
                                                                                                                                                                                                                         insecticides for 5634, 6578
                                                                                                             in wheat fields, effects of insecticides on
                                                                                                                                                                                                                         integrated 500
      prey of, escape responses of 6110
                                                                                                                   5998
      preying on
                                                                                                             in woodland, in Czechoslovakia 5201 overwintering in 2733
                                                                                                                                                                                                                        oil emulsions for
                                                                                                                                                                                                                                                               5635
                                                                                                                                                                                                                    in Cape Verde 137
in India 500, 4083, 5635
         Acyrthosiphon pisum 3521, 6318 and biological control using, in
                                                                                                             preying on
         Oklahoma 3343

Aphidoidea, and biological control using, in USA 4984

Aphis craccivora 5593

A. fabae 246

Contarinia sorghicola, in Karnataka
                                                                                                                 Acyrthosiphon kondoi, in New South
Wales 6437
                                                                                                                                                                                                                    on coffee
                                                                                                                                                                                                                        in India
                                                                                                                                                                                                                    in India 500
in Tamil Nadu 4083
on mandarin, in Karnataka 5635
                                                                                                                  Aphidoidea, in Austria 4451
                                                                                                                  Araneae 1046, 2821
                                                                                                                 Coccidae, in West Indies 249 grain aphids, in England 1388
                                                                                                                                                                                                                Coccygomimus instigator (see Pimpla
                                                                                                                                                                                                                      instigator)
                                                                                                                                                                                                              Cocchearia armoracia (see Pimpla turionellae)
Cochlearia armoracia (see Horseradish) cochlearia, Phaedon cochlearis, Blaesoxipha
Cochliotis melolonthoides biology of 1384
                  3416
                                                                                                                  Metopolophium dirhodum 874
     3416
grain aphids, in Kazakhstan 3376
Lipaphis erysimi, in Haryana 5469
Myzus persicae, in Bulgaria 1462
Therioaphis trifolii, and biological
control using, in Oklahoma 3343
Uroleucon ambrosiae, and biological
control using, in Oklahoma 3343
rearing of, techniques for 246
reproductive system in, development of
5465
                                                                                                                  Myzus persicae
                                                                                                                       in Andhra Pradesh 6574
                                                                                                                       in Pennsylvania 4916
                                                                                                                  Psylla pyri, in France 5607
                                                                                                                  Therioaphis trifolii, in New South
Wales 6437
                                                                                                                                                                                                                    Cordyceps spp. in, in Tanzania 1384 in Tanzania 1384
                                                                                                       pyrethroids in, toxicity of 6216
Coccinellini, in Palaearctic region 4193
Coccipolipus epilachnae
hosts of 457
in El Salvador 457
                                                                                                                                                                                                                    on sugar-cane, in Tanzania 1384
                                                                                                                                                                                                                    parasites of, effects of insecticides on
            5465
      searching behaviour in 3521
                                                                                                                                                                                                                           1384
 Coccinella septempunctata brucki
                                                                                                                                                                                                                     parasitised by, Campsomeris spp., in Tanzania 1384
     development in, effects of temperature on 1351
                                                                                                             parasitising
                                                                                                                  Epilachna varivestis 457
                                                                                                                                                                                                               cockerelli, Paratrioza
Cockroach (see Blattaria)
     in Japan 3292, 6552
in Taiwan 3316
                                                                                                                  Subcoccinella vigintiquattuorpunctata
                                                                                                                                                                                                              Cockroach (see Blattaria)
Cockstoot mottle virus, in, Dactylis
glomerata, in East Germany 5518
Cocoa (see Cacao)
cocois, Haplaxius (see Myndus crudus)
cocois, Myndus (see M. crudus)
Coconut (Cocos nucifera)
Amblypelta cocophaga on, in Solomon
Islands 3698
arthropod nests of
                                                                                                                        457
                                                                                                        Coccodiplosis coffeae
in São Tomé and Príncipe 258
on cacao, in São Tomé 258
parasitised by, Xyphigaster pseudococci,
in São Tomé 258
          Hysteroneura setariae, in Taiwan 3316
           Trialeurodes vaporariorum in Japan 6552
in Kyushu 3292
Coccinella septempunctata septempunctata, in USA 5466
Coccinella transversalis (see C. repanda)
Coccinella transversoguttata richardsoni diel activity in 3537 in Canada 2635 in USA 3537 in potato fields, in Pennsylvania 3537 pyrethroids in, toxicity of 2635
Coccinella trifasciata in Canada 2635 pyrethroids in, toxicity of 2635
Coccinella undecimpunctata
Coccipolipus epilachnae not parasitising 457 descriptions of 1775
               in Kyushu 3292
                                                                                                        Coccoidea
                                                                                                       control of
biological 5475
insecticides for 2951
in Comoro Islands 5449
in Middle East 6012
in Soviet Far East 146
lipids in 1815
Coccoloba, Conchaspis angraeci on 506
Coccophagoides utilis
in USA 3799
parasitising, Parlatoria oleae, and
biological control using, in Greece
3799
                                                                                                             control of
                                                                                                                                                                                                                    arthropod pests of
in Kenya 4181
world distribution of 1960
Aspidiotus destructor on, in New
Hebrides 2935
Auchenorrhyncha on, in Florida 5583
Aulacaspis tubercularis on, in New
Hebrides 2935
                                                                                                                                                                                                                    Axiagastus cambelli on, in Solomon
Islands 3698, 4179
                                                                                                                                                                                                                    Brontispa longissima on
in Solomon Islands 3698
in Tahiti 1833
resistance to 4179
                                                                                                                    3799
                                                                                                        Coccophagus
parasitising
      descriptions of 1775
     head capsule in
in Egypt 1042
in USSR 3376
                                                                                                                  Ceroplastes pseudoceriferus, in
Bangladesh 5087
                                                                                                                                                                                                                     Colomerus novahebridensis on 2654
                                                                                                                                                                                                                     Delphacidae on, in Ivory Coast
                                                                                                                                                                                                                    Eriophyes guerreronis on 2654
damage caused by 1436
varietal preferences of 1436
Haplaxius crudus on, in Florida
                                                                                                                  Chloropulvinaria polygonata, in
Bangladesh 5087
      in cotton fields, effects of insecticides on
            1042
                                                                                                        Coccophagus lycimnia
in Greece 5640
      insecticides in, toxicity of 2634
                                                                                                            parasitising

Coccus hesperidum, and biological

control using, in Georgia (USSR)
      overwintering in 2733
                                                                                                                                                                                                                     insect pests of, in Indonesia 936
                                                                                                                                                                                                                    Insect pests of, in Indonesia 936

Myllocerus curvicornis on, damage caused by 360

Nephantis serinopa on in India 5052 in Sri Lanka 5052 in Tamil Nadu 4542
     preying on, grain aphids, in Kazakhstan
 33/6
Coccinella undecimpunctata menetriesi, in India [7] 5469
Coccinella undecimpunctata undecimpunctata in Canada 261 in USA 261
coccinellidae, Perilitus
Coccinellidae
                                                                                                       Saissetia oleae, in Greece 5640
Coccophagus scutellaris, parasitising, Coccus
hesperidum, and biological control using, in Georgia (USSR) 2453
Coccosterphus
in Bangladesh 4522
keys to 4522
                                                                                                                                                                                                                    Oligonychus spp. on, in New Hebrides 2840
                                                                                                                                                                                                                    2840
Painella simmondsi on, in Solomon Islands 4179
pest control on 936
biological 6001
cultural measures for 1959
integrated 322
pests of
                                                                                                        Coccosterphus bengalensis
sp. nov., description of 4522
in Bangladesh 4522
on grasses, in Bangladesh 4522
      attraction of, to light 1888
biological control using 5475
book 4454
      butonate in, toxicity of 1702
      genetic improvement of 4806
                                                                                                        Coccotrypes carpophagus
in India 3677
      in Kuwait 1837
in USSR 1345
                                                                                                                                                                                                                         in Kerala 1902
in Réunion 694
                                                                                                             in Areca catechu nuts, in Karnataka
     in upple orchards
effects of pesticides on 5072
in Norway 5605
in cabbage fields, effects of Bacillus
                                                                                                                    3677
                                                                                                                                                                                                                     Raoiella indica on, in Madhya Pradesh
                                                                                                        Cocculus trilobus, diet component for,
Oraesia emarginata 1321
                                                                                                                                                                                                                           4295
                                                                                                        Coccura comarii in Poland 2271
on Rubus, in Poland 2271
Coccus caparidis, in Israel 6012
Coccus hesperidum
biology of 2977
control of
                                                                                                                                                                                                                     Recilia mica on, in Ivory Coast 6445
                                                                                                                                                                                                                    Rhynchophorus ferrugineus on, in
Karnataka 1435
             thuringiensis on 5839
     in citrus groves
effects of pesticides on 975
in Italy 5633
in cotton-field borders, in Queensland
                                                                                                                                                                                                                    Scapanes australis on in Solomon Islands
                                                                                                                                                                                                                                                                     3698
                                                                                                                                                                                                                         resistance to 4179
                                                                                                                                                                                                               Coconut blast
                                                                                                                                                                                                              causal agent
control of, vector control for 6445
in, Recilia mica, transmission of 6445.
Coconut cake, diet component for,
Rhynchophorus ferrugineus 361
Coconut dry bud rot
             2546
                                                                                                            control of
biological 2453
cultural 2977
insecticides for 2453, 2977
in USSR 2453, 2977
on lemon, in Georgia (USSR) 2
on pot plants, in USSR 2977
parasitised by, Metaphycus spp.
      in eucalypt forests, in Victoria 5763
in mixed forests, in West Germany 1432
      in orchards
      effects of insecticides on 2434
in Poland 3465
in pine forests, in Victoria 5763
                                                                                                                                                                              2453
                                                                                                                                                                                                                    causal agent
control of, vector control for 6445
```

adjoor mach		731
oconut dry bud rot contd.	Cofana spectra contd.	Cola nitida, insect pests of, alternative food
causal agent contd. in, Delphacidae, transmission of 6445	on rice in Bangladesh 6424	plants of 3654 Cola nitida (stored nuts)
oconut fibre, Tinea fictrix in, in Sri Lanka	in Bihar 2900	Balanogastris kolae in, damage caused by
2089 oconut lethal yellowing, causal agent,	in Sarawak 2651 on sugar-cane, in Punjab 2353	1616
vectors of 20, 5583	parasites of, in Sarawak 2651	pest control in, timing of 1616 Cola (stored nuts), pest control in, fumigant
oconut plantations	predators of, effects of insecticides on	for 6664
Coccinellidae in, in West Indies 249 Colpacampsomeris indica in, in Sri Lanka	6424 seasonal abundance of 2900	Colaphoptera, taxonomy of 4207 Colaspis
1175	Syncephalastrum racemosum in, in Kerala	Beauveria spp. in, in Mexico 1651
predatory arthropods in, in Karnataka	2908	cowpea mosaic virus in, not transmitted
2821 ocophaga, Amblypelta	taxonomy of, transferred from Tettigoniella 287	1011 in Louisiana 4310
ocos nucifera (see Coconut)	Cofana subvirescens	on maize, in Mexico 1651
oelaenomenodera elaeidis control of	distribution of 287	on Vigna unguiculata, in Costa Rica
biological 4544	on sugar-cane 287 taxonomy of, transferred from Tettigonia	1011 Colaspis brunnea
insecticides for 1438, 4543	287	in USA 4310
in Ghana 362 in Ivory Coast 1438, 4544	Cofana yatsumatsui	on soyabean, in Louisiana 4310
on oil palm	sp. nov., description of 287 on rice 287	on Trifolium pratense, in Louisiana 431 Colaspis louisianae
in Ghana 362	Coffea arabica (see Coffee)	food-plants of 4310
in Ivory Coast 1438 parasites of, in Ghana 362	Coffea canephora (see Coffee) coffeae, Coccodiplosis	in USA 4310 Colaspis pini
parasitised by	coffeae, Geococcus	in USA 4310
Pediobius setigerus, in Ivory Coast	coffeae, Saissetia	on Pinus, in Louisiana 4310
4544 Sympiesis aburianus, in Ivory Coast	coffearia, Homona Coffee (Coffea spp.)	Colaspoides, on Rosa moschata, in Himachal Pradesh 2553
4544	Acrocercops caeruleus on, in Tamil Nadu	Colastes braconius
population dynamics of 362 pelestialium, Trigonotylus	6581 A. zamenopus on, in Java 6581	in Netherlands 534 parasitising
oelidia olitoria, taxonomy of, transferred to	Antestiopsis spp. on	Agromyza frontella, and biological
Jikradia 6025 oelidiinae, taxonomy of 6025	damage caused by 499 effects of fertilizers on 499	control using, in USA 2928
oeliodes, on Betula, in Finland 5150	effects of fungicides on 499	Tischeria ekebladella, in Netherlands 534
oeloides	Cerococcus spp. on, in Tamil Nadu 4083	rearing of, techniques for 2928
in spruce forests, in Alaska 5738 parasitising, <i>Dendroctonus</i> spp., in Mexico	C. ornatus on, in Tamil Nadu 6577 Eacles magnifica on, development of	Coldhardiness Apanteles chilonis 1258
1649	3054	Blepharidopterus angulatus 384
loeloides filiformis in West Germany 2053	Fusarium stilboides in, insects associated with 4720	Byturus tomentosus 1442 Elatobium abietinum 3063, 4846
parasitising, Leperisinus varius, in West	Geococcus coffeae on, assessing	Matsucoccus resinosae 4938
Germany 2053 Toeloides melanostigma	infestations of 1055 Hypothenemus hampei on, oviposition by	Megoura viciae 4846 Plodia interpunctella 599
biology of 5397	5730	Pyrrharctia isabella 6100
in USSR 5397	insect pests of	Trogoderma variabile 3105
parasitising, Scolytidae, in Lithuania 5397	in India 500, 4082 in Sarawak 2651	Typhlocyba pomaria 384 role of thermal-hysteresis factors in 268
Coeloides pissodis	insecticides in, toxicity of 6578, 6579	colemani, Bruchobius (see Dinarmus
host preferences in 5151 in USA 5151	Kilifia americana on, imported into USA 704	colemani) colemani, Dinarmus (Bruchobius)
parasitising	Leucoptera meyricki on, in Zimbabwe	Coleomegilla maculata
Dendroctonus frontalis, in Georgia (USA) 5151	4720 Mericserica oberthuri on, in Tamil Nadu	diapause in 3290 diel activity in 3537
Ips grandicollis, in Georgia (USA)	6580	in Mexico 1653
5151 Phloeosinus dentatus, in Georgia (USA)	pest control on 4082 biological 6001	in USA 550, 1046, 2367, 2528, 2734, 3537, 4600, 4603, 4916, 6189, 6206
5151	integrated 500	in cotton fields
Coeloides rufovariegatus in USA 2594	Planococcus spp. on, in Tamil Nadu 6582	effects of herbicides on 4600 in Mississippi 1046
on host food-plants, distribution pattern of	Pseudaonidia trilobitiformis on 5088	in maize fields, in Mexico 1653
2594	Rhizoecus nemoralis on, assessing	in potato fields, in Pennsylvania 3537, 4916
Coeloides scolyticida in Yugoslavia 3568	infestations of 1055 Sibine barbara on, in Brazil 2044	overwintering in 2734, 4752
parasitising, Scolytus spp., in Yugoslavia	Xylosandrus compactus on, damage	parasitised by, Perilitus coccinellae 3290
3568 Coelophora inaequalis	caused by 4610 Coffee plantations, Coccinellidae in, in West	chrysomela scripta, in Wisconsin 550
colour patterns in, inheritance of 768	Indies 249	6206
in Australia 768 taxonomy of, Coelophora veranioides as	Coffee (stored), Plodia interpunctella in, in USSR 3128	Epilachna varivestis, in Indiana 6189 Heliothis spp., in Mississippi 2528
synonym of 768	Coffee (stored beans), Araecerus fasciculatus	H. virescens, in Texas 4603
Coelophora veranioides, taxonomy of, synonym of C. inaequalis 768	in, damage caused by 586 Coffeeweed (see Cassia obtusifolia)	Myzus persicae, in Pennsylvania 4916 reservoirs of 2367
Coelopisthia areolata	cognata, Thera	seasonal abundance of 1046, 1653, 4916
sp. nov., description of 4094	coheni, Phytoseius	seasonal synchrony of parasites and 329 Coleomegilla maculata lengi
in UK 4094 Coelopisthia caledonica	coilus, Omphale coimbatorensis, Eothrips	development in, effects of temperature on
sp. nov., description of 4094	coimbatorensis, Euryscotolinx (see	5472 in Canada 2635, 5471
in UK 4094 Coelosterna scabrator (see Cerosterna	Stenomesius japonicus) Cola	parasitised by
scabrator)	Bathycoelia thalassina on, in Ghana	Perilitus coccinellae 5472
oenosaria, Scopula (see S. luridata) oeruleifrons, Mimegralla	3053 Characoma stictigrapta on, damage caused	in Ontario 5471 pyrethroids in, toxicity of 2635
Cofana, taxonomy of 287	by 6576	Coleophora, parasitised by, Entedon spp., in
Cofana spectra control of, insecticides for 2651, 6424	Cola acuminata, insect pests of, alternative food-plants of 3654	USSR 6606 Coleophora anatipennella
distribution of 287	Cola gigantea	in Poland 2952
food-plants of 287, 2353	Balanogastris kolae on, development of 3654	in USSR 6606 on Betula, in USSR 6606
in Bangladesh 6424 in India 2353, 2900, 2908	Sophrorhinus gbanjaensis on, development	on fruit trees, in Poland 2952
in Malaysia 2651	of 3654	parasites of, in Poland 2952

```
Coleophora betulella
in USSR 6606
                                                                                                                                                                                      Collembola contd.
                                                                                           Coleoptera contd.
                                                                                                in soil contd.
                                                                                                                                                                                          on trees, extracting from bark of 4318
     on Betula, in USSR 6606
                                                                                                   in North Dakota 264
                                                                                                                                                                                       Colletes
Coleophora frischella
in New Zealand 6439
                                                                                                in spruce-bark heaps, in West Germany
                                                                                                                                                                                          Dufour's gland in, secretion of 3744
                                                                                                      3571
                                                                                                                                                                                           mandibular glands in, secretion of 3744
    on Trifolium repens
damage caused by 6439
                                                                                               in stored grain 1609
in stored groundnuts 3145
                                                                                                                                                                                       Collops, in cotton fields, effects of insect-
resistant varieties on 1047
                                                                                                                                                                                      Collops vittatus
in Mexico 1653
in USA 5720
         effects of row spacing on 6439
                                                                                                in stored products, humidity requirements
Coleophora fuscedinella (see C. serratella)
Coleophora hemerobiella
in Poland 2952
                                                                                                      of 3112
                                                                                               in wheat fields, in USSR 2870 in woodland, in Czechoslovakia
                                                                                                                                                                                          in cotton fields, in Arizona 5720
in maize fields, in Mexico 1653
predation by 5720
                                                                                              in woodland, in Czechoslovakia 5201 insecticide resistance in 1143 on apple, in Norway 5605 on Asclepias syriaca, in Ohio 272 on Cajanus cajan, in Nigeria 1016 on forest trees 2155 dispersal of 3574 ecophysiology of, book 5798 on Larix decidua, in Poland 2593 on lucerne, assessing infestations of 344 on mulberry, in India 378 on Poa annua, in North America 2856 on soyabean
on fruit trees, in Poland 2952
parasites of, in Poland 2952
Coleophora hornigi
in USSR 6606
on Betula, in USSR 6606
                                                                                                                                                                                      predation by 5720 seasonal abundance of 1653 collusus, Acanthoscelides collusus, Bruchus (see Acanthoscelides pallidipennis) Colobopyas, taxonomy of 2670 Colocasia esculenta, Coleoptera on, resistance to 4179 Colombia
Coleophora laricella
in USA 2567
in Yugoslavia 2078
on Larix, in Yugoslavia 2078
on Larix occidentalis
                                                                                                                                                                   3449
                                                                                                                                                                                       Colombia
on Larix occidentalis
assessing infestations of 2567
effects of plant growth stage on 530
parasites of, rearing of 530
rearing of, techniques for 529, 530
Coleophora milvipennis
in USSR 6606
                                                                                                                                                                                          Aeneolamia varia in
                                                                                                on soyabean
                                                                                                                                                                                               in pastures 6432
                                                                                                   in Kenya 1520
in New South Wales 1518
                                                                                                                                                                                               natural enemies of
                                                                                                                                                                                                                                   6432
                                                                                                                                                                                          Anticarsia gemmatalis in natural enemies of 5665, 6522
                                                                                               on sunflower, in Kenya 1541
on wheat, in Yugoslavia 2869
                                                                                                                                                                                               on soyabean 6522
     on Betula, in USSR 6606
                                                                                               parasitised by, Ocencyrtus spp. 3369
pheromones in, perception of 1235
preyed on by, Corvus frugilegus, in New
Zealand 2919
                                                                                                                                                                                           biological control in 3185
Coleophora orbitella
in USSR 6606
                                                                                                                                                                                           cassava in, arthropod pests of 1025
                                                                                                                                                                                           Ceratopogonidae in, on cacao 4080
                                                                                                                                                                                          Coptotermes spp. in 6333
cotton in, pest control on 5125
Cupressus lusitanica in, insect pests of 5170
     on Betula, in USSR 6606
                                                                                               preying on
Achatina fulica 4983
molluscs 4449
Coleophora parthenica, on Salsola iberica,
and biological control using, in
California 4489
                                                                                               tree-trunk pests, in USSR 580
thermal-hysteresis factors in 2684
traps for 4875
                                                                                                                                                                                          5170
Danaus plexippus in 2249
Diatraea saccharalis in
natural enemies of 3940
on sugar-cane 5517
Draeculacephala clypeata in, natural
enemies of 3940
Heliothis spp. in 6023
H. virescens in, on cotton 6570
H. zea in, on cotton 6570
H. zea in, on cotton 6570
Coleophora plumbella
biology of 3985
in Finland 3985
                                                                                                   effects of lunar phase on catches in 2258
     on Rubus chamaemorus, in Finland
           3985
                                                                                           Coleotechnites edulicola
sp. nov., description of 575
biology of 576
in USA 575, 576
on Pinus edulis
    on Vaccinium uliginosum, in Finland 3985
Coleophora serratella
    control of, biological 4630
in Canada 3065
in Poland 2952
                                                                                                                                                                                          Hortensia similis in, natural enemies of
                                                                                                   damage caused by 5 in New Mexico 575
                                                                                                                                                                                                 3940
                                                                                                                                         576
    in USSR 6606
                                                                                                                                                                                           Metamasius spp. in, on sugar-cane 5517
Nasutitermes spp. in 6333
Naupactini in, on Pinus 5168
                                                                                                parasites of, in New Mexico 576
    on Alnus, in Switzerland 4630
    on Betula
                                                                                            Coleotechnites ponderosae
                                                                                                                                                                                          Panoquina spp. in, natural enemies of 3940
                                                                                                sp. nov., description of 575
        in circumpolar zone 5150
        in USSR 6606
                                                                                                in USA 575
    on Betula papyrifera, assessing infestations of 3065
                                                                                                                                                                                          Pinus patula in, insect pests of 5170
Polyphagotarsonemus latus in, on
Phaseolus vulgaris 1008
                                                                                            on Pinus ponderosa, in Colorado 575 colesi, Microctonus
    on fruit trees, in Poland 2952
parasites of, in Poland 2952
parasitism of, relation of habitat diversity
and 4630
                                                                                            Coleus, Callirhopalus bifasciatus on 5135
                                                                                                                                                                                           Pseudopantomorus latifrons in, on Pinus
                                                                                            Colias, male scent-producing structures in
                                                                                                  5326
                                                                                                                                                                                                 5168
                                                                                                                                                                                          Rhynchophorus palmarum in, on sugar-
cane 5517
                                                                                            Colias chrysotheme
and 4630
population dynamics of, relation of habitat
diversity and 4630

Coleophora siccifolia
in USSR 6606
on Betula, in USSR 6606

Coleophora spissicornis
in New Zealand 6439
                                                                                                phenotypic-induction mechanisms in
                                                                                                                                                                                           Sacadodes pyralis in, on cotton 5124
                                                                                           sex pheromone of, components of 5330 Colias crocea, in Qatar 6128 Colias eurytheme (see C. chrysotheme) Colias philodice
                                                                                                                                                                                          Scrobipalpopsis vergarai in, on Baccharis
4728
                                                                                                                                                                                          Spodoptera spp. in, natural enemies of 3940
                                                                                               male scent-producing structures in 5326 phenotypic-induction mechanisms in 2676
                                                                                                                                                                                           Tarsonemus pallidus in, on strawberry 6450
in New Zealand 0439
on Trifolium repens
damage caused by 6439
effects of row spacing on 6439

Coleophora vacciniella
on bilberry, mines of 3985
on Vaccinium uliginosum, mines of 3985
Coleoptore
                                                                                                                                                                                           Tingidae in 6131
                                                                                           sex pheromone of, components of 5330 colibri, Athalia (see A. rosae)
                                                                                                                                                                                       Colomerus novahebridensis
                                                                                                                                                                                          natural enemies of 2654
                                                                                            Colinus virginianus, Lymantria dispar
nuclear polyhedrosis virus in, no effects
from 2571
                                                                                                                                                                                           on coconut 2654
                                                                                                                                                                                      Colomerus vitis, preyed on by, Amblyseius aberrans 3345
                                                                                            Colladonus montanus, peach X-disease, causal agent in, transmission of 2101 Collagens, in Thermobia domestica,
                                                                                                                                                                                       Colorado
    control of, genetic 3173
head capsules in, dissecting of 4313
                                                                                                                                                                                          Artogeia napi in 2851
Coleotechnites ponderosae in, on Pinus
    head capsules in dissection
horn functions in 2748
in Arizona 793
in Comoro Islands 5449
in Italy 2292
in Mongolia, book 3308
in New Zealand 4304
                                                                                                  biosynthesis of 4227
                                                                                           collaris, Diadromus (Thyracella)
collaris, Thyracella (see Diadromus collaris)
Collembola
                                                                                                                                                                                          Hypera postica in, natural enemies of 1428, 6243
                                                                                                                                                                                          Pityophthorus opaculus in, on Abies 5207
                                                                                                                                                                                      coloradus, Amphitornus
Colpacampsomeris indica eliformis
in Sri Lanka 1175
in coconut plantations, in Sri Lanka
                                                                                               in agricultural soils, factors affecting 2758
    in Sweden 5414
in Utah 793
in barley fields, effects of undersowing on 3433
                                                                                               in cacao plantations, in Costa Rica 5133 in Ceutorhynchus galls on rape, in Poland
                                                                                                      2469
    in cacao plantations, in Costa Rica 5133 in cattle dung, resource partitioning among guilds of 1303 in clover fields, in Egypt 4355 in dung, in Egypt 4475 in oak-hornbeam forests, in
                                                                                                                                                                                      Colpidium campylum, endosulfan in, detecting of 6708
Colpoclypeus florus
in Italy 5617
marking of, radiozine for 1460
                                                                                                in grassland
                                                                                                   communities of 3421
                                                                                                effects of management on 3437
in Irish Republic 3436
in industrial reclamation sites, in England
                                                                                                                                                                                          parasitising, Pandemis heparana, in Italy
                                                                                               in pastures, effects of grazing on
in soil, extracting of 4872, 4873
on cucumber, in UK 6508
          Czechoslovakia 5754
     in plant litter, in North Dakota
                                                                                                                                                                                      colposceniae, Psyllaephagus columba, Tremex
    in soil
        extracting of 4872, 4873
                                                                                                on leguminous crops, in Egypt 4357
                                                                                                                                                                                      columbiensis, Typhlodromus (see T. citri)
```

ubject Index
olydiidae
in eucalypt forests, in Victoria 5763 in pine forests
in pine forests
in New Zealand 4875 in Victoria 5763
traps for 4875
omari, Coccura
ombretae, Schizocharis
ombretum, Amblycerus spp. on 1584
ombustella, Alophia omes, Erythroneura
omma, Agonoderus (see Stenolophus
comma)
omma, Eurosta omma, Stenolophus (Agonoderus)
ommelina
Aulacophora foveicollis on, in Andhra
Pradesh 2349
ommodus. Teleograllus
A. lewisii on, in Andhra Pradesh 2349 mmodus, Teleogryllus mmunis, Lygocoris mmunis, Melanotus
ommunis, Melanotus
omoro Islands, insect fauna in 5449 ompacta, Chaetophyes
ompactus, Xylosandrus
ompanion crops
for broccoli, effects on insect pests of
6226 for cabbage, effects on insect pests of
6226
ineffective against lepidopterous pests of
cabbage 2471 insect pests as affected by 3512
ammarialla hifacaiata
in Japan 1591
parasitising, Aonidiena taxus, in Kyusht
1591 Omplanata, Popillia
omplanatus, Trioxys
ompleta, Rhagoletis
ompositae, Sphecidae on, in Uzbekistan 3337
ompositae, Aphis (see A. fabae solanella)
ompositae. Dactvnotus (see Uroleucon
compositae)
ompositae, Uroleucon (Dactynotus)
ompressus, Camponotus ompressus, Irenimus
ompsilura, parasitising, Mythimna spp., i
Queensland 1921 Compsilura concinnata
humidity as affecting 3293
in France 3075, 3854 in Poland 3592
in Poland 3592
in USA 3100 in oak woodland, effects of insecticides of
3100
3100 parasitising
3100 parasitising <i>Hyphantria cunea</i> , in France 3075,
3100 parasitising Hyphantria cunea, in France 3075, 3854
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 mapta, Cirphis (see Spodoptera compta) omputers
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 ompta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 ompta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide bioassays 2275
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 ompta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 tempta, Cirphis (see Spodoptera compta) tempta, Spodoptera (Cirphis) tempta, Spod
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 compta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 constocki, Pseudococcus
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 ompta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 omstocki, Pseudococcus omstockiella, taxonomy of 2670 omstockiella sabalis
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 ompta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 omstocki, Pseudococcus omstockiella, taxonomy of 2670 omstockiella sabalis
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 ompta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 omstocki, Pseudococcus omstockiella, taxonomy of 2670 omstockiella sabalis
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 mapta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 omstocki, Pseudococcus omstockiella, taxonomy of 2670 omstockiella sabalis descriptions of 2670 illustrations of 2670 inale of 2670
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 compta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 comstockiella, taxonomy of 2670 comstockiella sabalis descriptions of 2670 male of 2670 comstockie, Euplectrus comsta, Bonnetia
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 mapta, Cirphis (see Spodoptera compta) ompta, Spodoptera (Cirphis) omputers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 omstocki, Pseudococcus omstockiella, taxonomy of 2670 omstockiella sabalis descriptions of 2670 illustrations of 2670 intal of 2670 omstockii, Euplectrus omta, Bonnetia omcava, Sibinia
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 compta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 comstockiella, taxonomy of 2670 comstockiella, taxonomy of 2670 comstockiella sabalis descriptions of 2670 comstockii, Euplectrus comta, Bonnetia concas, Sibinia concaspis angraeci
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 compta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 comstockiella, taxonomy of 2670 comstockiella, taxonomy of 2670 comstockiella sabalis descriptions of 2670 comstockii, Euplectrus comta, Bonnetia concas, Sibinia concaspis angraeci
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 compta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 comstockiella, taxonomy of 2670 comstockiella, taxonomy of 2670 comstockiella sabalis descriptions of 2670 male of 2670 comstockii, Euplectrus comta, Bonnetia conceaspis angraeci control of, insecticides for 506 distribution of 506
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 compta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 constockiella, taxonomy of 2670 constockiella, taxonomy of 2670 illustrations of 2670 male of 2670 constockii, Euplectrus control of, insecticides for 506 distribution of 506 food-plants of 506 in USA 506
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 mapta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 constocki, Pseudococcus constockiella, taxonomy of 2670 constockiella sabalis descriptions of 2670 illustrations of 2670 male of 2670 constockii, Euplectrus conta, Bonnetia conchaspis angraeci control of, insecticides for 506 distribution of 506 food-plants of 506 in USA 506 mecinna. Chaetocnema
3100 parasitising Hyphantria cunea, in France 3075, 3854 Lymantria dispar in New Jersey 3100 in Poland 3592 temperature as affecting 3293 compta, Cirphis (see Spodoptera compta) compta, Spodoptera (Cirphis) computers for analysing results of insecticide bioassays 2275 for forecasting pests, diseases, and losses 3188 use in taxonomy of 1173 constockiella, taxonomy of 2670 constockiella, taxonomy of 2670 illustrations of 2670 male of 2670 constockii, Euplectrus control of, insecticides for 506 distribution of 506 food-plants of 506 in USA 506

concinnus, Ips concolor, Nadiasa

concolor, Opius

Confectionery factories, insect pests in, in USSR 1607 Conferences (1974), Pesticide usage in Nigeria 1678 Conferences (1976) All India Symposium on Soil Biology and Ecology 2780 International Congress of Entomology 2748 International Symposium of Carabidology Italian Plant Protection Society 1450, 1471 Pest Control Conference, Egypt 5919 Round Table concerning the control of Dacus oleae with attractants 1471 Social insects in the anthropogenic environments 117 Conferences (1977) Aquatic weed training course 4490 British Association for the Advancement of Science 634 Brown planthopper: threat to rice production in Asia 2380 Causes of damage in industrial grain production 2865 Conference of the Scientific Institute of Plant Protection 1861 Developments in the control of potato viruses 2492 Entomological Society of America 2932 Forecasting in crop protection 635 Grassland Fauna 3419 International Mungbean Symposium 428
Pest control in food processing plant and
the protection of foodstuffs 3108 Plant disease epidemiology and dispersal of plant parasites 2102
Problems of insect and tick control. Biological, medical and legal aspects Recent Research on Household Pests 3138, 3334 Seminar on biological control 5922 Strategy and tactics of control of migrant pests 5896 Symposium on Oriental Entomology 1860 Conferences (1978) American Association for the Advancement of Science 1141 American Society of Parasitologists 6 Beltwide Cotton Production Research Brazilian Society for the Advancement of Science 182 Chemical ecology: odour communication in animals 1721 in animals 1721 Confédération Internationale des Betteraviers Européens 1523 Conference of Pest Control 4325 Desert Vegetable Insect Symposium 1482 Dispersal of forest insects: evaluation, theory, and management implications 3573 Entomological Society of America, Eastern Branch 4881 Entomological Society of America, North Central Branch 6145, 6222 Genetics in relation to insect management Integrated Pest Management Colloquium Inter-Country Programme for Integrated Pest Control in Rice in South and South East Asia 318 InterAfrican Phytosanitary Council 3238 International Congress of Acarology 4408 International Congress of Pesticide Chemistry 649, 3192 2901 International Rangeland Congress 3977
International Symposium on
Phytopharmacy and Phytiatry 192
International Working Conference on
Stored-Product Entomology 3620
Mid-Year Tropical Agriculture
Conference Australia 4661 Conference, Australia 4661 Neurotoxicology of insecticides and

pheromones 1235

```
Conferences (1978) contd.
    Pesticides. Contemporary roles in
        agriculture, health, and the
         environment 1141
    Pests and Diseases of Pines in the Tropics
        5163
    Radar, insect population ecology, and pest
        management 1271
    Regional seminar on the use and
         management of pesticides in Central
         America 4948
    Regional training seminar on integrated
         pest control for irrigated rice in South
         and Southeast Asia 5567
   São Paulo Phytopathology Congress
        1753
   Symposium on the Pine Processionary
         Caterpillar 6592
   Techniques on Biodeterioration Studies
         3139
    The causes of low yield of the second crop
        rice in Taiwan and the measures for improvement 6376
    The role of insectivorous birds in forest
        ecosystems 2557
    Working Group Integrated Control in
Cereals Growing in the Mediterranean
Basin and in Iran 3362
Basin and in Iran 3362

Conferences (1979)

All India Coordinated Research Project on Biological Control of Crop Pests & Weeds 4693
   American Phytopathological Society
   Annual Chemical Congress 5969
Annual Science and Agriculture
         Conference, Australia 4661
   Australian Applied Entomological
Research Conference 5929
    Central States (Kansas) Entomological
         Society 2781
   Chemistry and agriculture 5969
Cotton-insect research and control 488
EPPO Working Party on Pesticides for
Plant Protection 5970
         Plant Protection
    FAO 5283
   FAO/IAEA International Symposium on
the Use of Isotopes for Research and
Control of Vectors of Animal
Diseases, Host Pathogen Relationships
and the Environmental Impact of
         Control Procedures 4278
    Insect Behavioural Ecology 6102
    International Conference on Cacao
         Research 5132
    International Congress of Plant Protection
         3240
 International Symposium on the
Protection 3795
International Symposium on the
Entomological Fauna of Central
Europe 4719
Italian Union of Zoology 5446
Joint EPPO/IUFRO Working Party
Meeting on Phytosanitary Regulations
in Forestry 1066

The Meeting on Genetics 4817,
   International Symposium on Crop
Protection 3795
   Mexico 1645

Mexico 1645
   New Zealand weed and pest control
conference 5864
Phytopathological Society of Israel 1020
   Pittsburgh Conference on Modeling and
    Simulation 6134
Recent trends in rice brown plant hopper control 337
Regional workshop on biological control
(Noumea, New Caledonia) 4696
Seminar on the improvement of post-
harvest systems in the sahelian regions
of West Africa 4114
Swiss Society of Microbiology 6685
Conferences (1980)
   Association of Applied Insect Ecologists
         5891
   EPPO Standing Committee on
Fumigation Standards 6696
    The economics of integrated pest
   management 5891
Weed and Plant Protection Conferences,
Uppsala 5954, 5955
```

```
conferta, Helicoverpa armigera (see
                                                                                     Conopia myopaeformis contd.
                                                                                                                                                                          Contarinia lentis
                                                                                         control of
                                                                                                                                                                              biology of
                                                                                                                                                                                                  5667
      Heliothis armigera conferta)
conferta, Heliothis armigera
                                                                                                                                                                              control of
                                                                                                                                                                                                 5667
                                                                                             insecticides for 3806, 6466
configurata, Mamestra
confinis, Chaetocnema
                                                                                             timing of 3479, 6466
                                                                                                                                                                              in France
                                                                                                                                                                                                 5667
                                                                                         descriptions of 3806
emergence in 3479
                                                                                                                                                                              on lentil, damage caused by 5667
                                                                                                                                                                          Contarinia okadai
confinis, Cinara
                                                                                         in Belgium 3806
in Netherlands 1980
                                                                                                                                                                              in Japan 6483
confinis, Physatocheila
conflictana, Choristoneura
                                                                                                                                                                              on Citrus, in Japan 6483
                                                                                         in Poland 3479, 6466
                                                                                                                                                                              taxonomy of
conformis, Harmonia
                                                                                     on apple
in Belgium 3806
in Poland 3479, 6466
traps for 1980
Conopidae, in Poland 792
confusa, Sinea
                                                                                                                                                                                  characters distinguishing C. citri and
confusum, Tribolium
confusum, Trichogramma (see T. chilonis)
confusus, Lysiphlebus
confusus, Tarsonemus
                                                                                                                                                                                  neotype for 6483
                                                                                                                                                                          Contarinia pisi
biology of
                                                                                                                                                                                                  1508
                                                                                     Conoptae, in Poland 192
Conostigmus, parasitising, Syrphidae, in Poland 3995
Conotrachelus, in Kansas 1835
Conotrachelus affinis
in USA 5594
on Carya glabra, damage caused by 5594
Conotrachelus aguacatae
in Mexico 400
conglobata, Synharmonia
                                                                                                                                                                              control of 1508
Congo, plant protection in 3238
                                                                                                                                                                              in UK 1508
congrua, Chrysopa
Conicobruchus, in India 4197
                                                                                                                                                                              on pea, damage caused by
                                                                                                                                                                          Contarinia pseudotsugae
control of, insecticides for 2057
in USA 2057
Conicobruchus albopubens
descriptions of 5298
taxonomy of, characters distinguishing C.
indicus and 5298
                                                                                                                                                                              on Pseudotsuga menziesii, in Oregon
                                                                                                                                                                                    2057
Conicobruchus alpina
                                                                                         on avocado 400
    sp. nov., description of 4201 in India 4201
                                                                                         taxonomy of
                                                                                                                                                                          Contarinia pyrivora
                                                                                             characters distinguishing C. perseae and
                                                                                                                                                                              biology of 5066
control of 5066
on grasses, in Jammu and Kashmir 4201

Conicobruchus indicus
descriptions of 5298
taxonomy of, characters distinguishing C.
albopubens and 5298
conicus, Rhinocyllus
                                                                                                   400
                                                                                                                                                                          in UK 5066
on pear, damage caused by 5066
Contarinia sorghicola
biology of 1937, 5569, 6352
control of 6352
                                                                                             characters distinguishing C. serpentinus and 400
                                                                                     Conotrachelus nenuphar
alloenzyme markers for
                                                                                                                                    4812
                                                                                          benomyl in, no effects from 959
                                                                                                                                                                             control of 6352
fumigants for 3131
insecticides for 919, 3976, 5574, 6428
diapause in 1417, 6426
emergence in 919
illustrations of 1937
in Australia 1937, 3131
in Brazil 3976, 5569, 6426
in India 1417, 3416, 5571, 5574, 6352, 6428
Conifers
                                                                                          control of, insecticides for
                                                                                                                                        1976
                                                                                         EPPO data sheet on 3189
     Lachnidae on, in UK 6602
                                                                                         fenarimol in, no effects from 959
in Canada 959
in USA 1976
Thera spp. on, in central Europe 572
Coniopterygidae, in orchards, in Hungary
                                                                                         on apple
in Ohio 1976
Coniopteryx esbenpeterseni, in Hungary
Coniopteryx tineiformis, in Hungary 3467 conjugella, Argyresthia connatus, Cimbex
                                                                                             in Quebec 959
                                                                                     Conotrachelus pecanae
in USA 6456
on pecan, in Oklahoma 6456
Conotrachelus perseae
distribution of 400
                                                                                                                                                                              in Mexico 923
in Tamil Nadu 55'
in USA 919, 2407
                                                                                                                                                                                                          5574
Connecticut
    Fiorinia externa in
                                                                                                                                                                              in sorghum grain, in Queensland 3131 mouthparts in 3735
    on Tsuga 4920
Lymantria dispar in, natural enemies of 518, 1072, 3293
Magisticada sparts
        natural enemies of 3608
                                                                                         on avocado 400
                                                                                                                                                                              mouthparts in 373 on sorghum 5574
                                                                                         taxonomy of
                                                                                                                                                                                  damage caused by 923, 1937, 6429 development of 5569
                                                                                             characters distinguishing C. aguacatae
    Magicicada septendecim in 5453
Megalocoleus molliculus in, on Achillea
                                                                                                   and 400
                                                                                                                                                                                  effects of sowing date on 6426
in Brazil 3976
in Florida 919
                                                                                             characters distinguishing C. serpentinus
                                                                                                   and 400
          2069
    Paranthrene pellucida in, on Quercus
                                                                                     Conotrachelus retentus, adults of,
                                                                                     distinguishing sexes of 1967

Conotrachelus schoofi, taxonomy of, new name for C. tibialis Schoof 22
          3077
                                                                                                                                                                                  in India 6352
                                                                                                                                                                              in Maharashtra 6428
resistance to 922, 4182, 5570
varietal preferences of 5571
parasites of
     Phytobia setosa in, on Acer 4941
    Popillia japonica in, natural enemies of 6204
                                                                                     Conotrachelus serpentinus
distribution of 400
connexa, Eriopis
connexus, Litargus
Conocephalus, preying on, Leptocorisa
oratorius, in Papua New Guinea 140
Conocephalus fasciatus, in Canada 5407
                                                                                         on avocado 400
                                                                                                                                                                                  attraction to sorghum of 2407
diapause of 1417
effects of insecticides on 919
                                                                                          taxonomy of
                                                                                             characters distinguishing C. aguacatae
                                                                                                   and 400
                                                                                                                                                                                  not affected by fumigants 3131
Conoderus amplicollis
                                                                                             characters distinguishing C. perseae and
                                                                                                                                                                              parasitised by
    development in 4015
in Mexico 4015
in USA 4015
in USA (Hawaii) 4015
                                                                                                                                                                                  Eupelmus australiensis, in Queensland
                                                                                                   400
                                                                                      Conotrachelus tibialis Schoof, taxonomy of,
                                                                                                                                                                                  Tetrastichus spp. 557
in Karnataka 1417
T. diplosidis
                                                                                           Conotrachelus schoofi as new name for
                                                                                     consanguinea, Holotrichia
consimilis, Limothrips
conspersus, Euschistus
constricta, Agallia
constrictus, Amphiareus
Contarinia, on Bromus racemosus, varietal
preferences of 1418
Conoderus exsul
in New Zealand 5870
in USA 4416
                                                                                                                                                                                      in Florida 919
                                                                                                                                                                              in Georgia (USA) 2407
predators of, in Karnataka 3416
    Training on, Inopus rubriceps, in New Zealand 5870
rearing of, diets for 4314
traps for 4416
                                                                                                                                                                          predators of, in Karnataka 3416

Contarinia tritici
in Czechoslovakia 2871
on wheat, in Czechoslovakia 2871

Contortylenchus brevicomi, in,
Dendroctonus frontalis, in Florida 2578

Contortylenchus chalcographi, in, Pityogenes
chalcographus, reducing infection rates
of Protozoa 4645
                                                                                     Contarinia bromicola
in USSR 1418
Conoderus falli
    control of, insecticides for 3026 in USA 3026, 4416
                                                                                         on Bromus racemosus, varietal preferences
    on sweet potato, in Georgia (USA) traps for 4416
                                                                   3026
                                                                                              of 1418
                                                                                     Contarinia cerasiserotinae
in USA 569
                                                                                                                                                                          contractus, Thylodrias
Controlled atmospheres (see Protective
Conomelus dehneli
    biology of 5512
                                                                                         on Prunus serotina, damage caused by
    descriptions of 5512 in Italy 5512 in Poland 5512 on Juneus conglomeratus, in Italy 5512 parasites of, in Italy 5512
                                                                                                                                                                          atmospheres)
convecta, Mythimna (Pseudaletia)
convecta, Pseudaletia (see Mythimna
                                                                                               569
                                                                                     Contarinia citri
                                                                                         distribution of 6483
                                                                                         taxonomy of, characters distinguishing C. okadai and 6483
                                                                                                                                                                         convecta)
convergens, Hippodamia
convexifrons, Allotropa
convolutella, Zophodia
Convolvulus arvensis
Galeruca rufa on, in Italy 847
Myzus persicae on, development of 396
Convolvulus sepium (see Calystegia sepium)
Conwentzia psociformis, in Hungary 3467
Cook Islands (indexed under New Zealand)
Cookibal (see Eucalyntus migrathesa)
                                                                                                                                                                                convecta)
parasites of, in Italy 5512

Conophthorus echinatae
sp. nov., description of 1577
in USA 1577
on Pinus echinata, in Missouri 1577

Conopia myopaeformis
attractants for 3806
                                                                                     Containing inouyei
in Japan 5737
jumping behaviour in 5376
parasitised by
                                                                                             Gastrancistrus sugitama, in Kyushu
    laboratory synthesis of 4170
baits for 1980
biology of 3806
                                                                                             Platygaster sugitama, in Kyushu 5737
Tetrastichus sugitamabae, in Japan
                                                                                                                                                                          Coolibah (see Eucalyptus microtheca)
```

ubject Index		941
oorgensis, Pachycrepoideus (see Oricoruna	Corcyra cephalonica contd.	Corticoris signatus contd.
arcotensis) Copiphorini, in Australia 5292	parasitised by Chelonus blackburni 2815	on Quercus coccinea, in Pennsylvania 1580
copper in Agrotis segetum, accumulation of 38	Parasierola nephantidis 1881	on Quercus palustris, in Pennsylvania
in Delia antiqua, and in diet 2226	Trichogramma australicum 1493 T. brasiliensis 2343	1580 Coruna clavata
in Noctua pronuba, use in chemoprinting of 2223	seasonal abundance of 6647	hyperparasitising, grain aphids, in
ion (Cu ²⁺), in Laodelphax striatella diet,	sterilisation of, γ -irradiation for 2724 Telenomus dignoides not parasitising	England 1388 in UK 1388
requirement for 3270	6308	parasitising, Aphidius spp., in England
Copper chloride oxide, hydrate, in Entomophthora obscura, toxicity of	Cordia dichotoma, use in control of rice pests of 3902	Coruna orientalis, taxonomy of, transferred
4136	cordoi, Apanteles	to Oricoruna 703
Copper oxide (Cu ₂ O), in coffee, effects on Antestiopsis of 499	Cordyceps in	corvinoides, Carcelia corvinus, Zarhopalus
Copper oxychloride (see Copper chloride	Cochliotis melolonthoides, in Tanzania	Corvus frugilegus, preying on, arthropods, in New Zealand 2919
oxide, hydrate) Copra, Dermestes spp. in, development of	1384 Synanthedon tipuliformis, in New	coryli, Cryptocephalus
3616	Zealand 1444	coryli, Monocesta Corylus americana, Agrilus arcuatus on, in
Copris hispanus hispanus, in Tunisia 4852 Copromorphoidea, food preferences in,	Cordyceps aphodii, in, Aphodius tasmaniae, in New South Wales 1948	North Carolina 4311
evolution of 5434	Cordyceps militaris, in, mouse, no effects	Corylus avellana (see Hazel) Corylus heterophylla, Pterocallis
Coptoformica, enzyme gene variability in 4968	from 1633	heterophyllus on, in North Korea 5402
Coptotermes	Cordyceps oxycephala, in, Dolichovespula media, in Japan 78	Coryna, in Turkey 4297 Coryna scabiosae
control of, insecticides for 3147 in cable coverings, damage caused by	coreana, Tiliaphis Coreidae	in Turkey 4297 taxonomy of, transferred from <i>Mylabris</i>
3147	in Arunachal Pradesh 1839, 1840	4297
nest-building in, effects on soil properties of 6333	in Manipur 2265 in Sikkim 795	Coryna zebraea in Turkey 4297
on cassava, in Colombia 1025	in West Bengal 796	taxonomy of, transferred from Mylabris
control of, insecticides for 4129	on sunflower, in Bulgaria 6558 on Vigna unguiculata, in Nigeria 454	4297 Corynebacterium
in Australia 4469	Coreus bos (see Enoplops cornutus)	in
in Dyera costulata wood 4129 intraspecific antagonism in 4469	coriacea, Sexava coriandri, Hyadaphis	Nezara viridula, transmission of 4037 soyabean, damage caused by 4037
Coptotermes curvignathus, attraction of, to fungus-invaded wood 5226	Coriandrum sativum	Coryneum cardinale, in, Cupressus arizonica, damage caused by 1077
Coptotermes formosanus	insecticidal activity of oil from 6173 repellent activity of oil from 6173	Corynis similis
Caloglyphus absoloni in mounds of, in China 1357	Cork tree, Amur (see Phellodendron amurense)	biology of 479 in Greece 479
control of, insecticides for 1356, 5487	Cork tree, Sachalin (see Phellodendron	on Papaver rhoeas, in Greece 479
hydroprene in, no effects from 1714 in China 1357	sachalinense) Corn (U.S. usage) (see Maize)	on Papaver somniferum, feeding by 479 Corynodes peregrinus (see Platycorynus
in wood	corni, Anoecia	peregrinus)
resistance to 4465 mechanisms of 1356	corni, Lecanium (see Parthenolecanium corni)	Corythucha arcuata, in USA 573 Corythucha ciliata
legs of, glands in 716	corni, Parthenolecanium (Lecanium)	Beauveria bassiana in, in Yugoslavia 1088
methoprene in, no effects from 1714 Pseudotrichonympha grassii in, effects of	corniger, Phytoseius Cornus, Allantinae on, in North America	control of, biological 1088
wood preservatives on 1356 soldier production in 1355	1178 Cornus mas, Rhagoletis cerasi on,	in Yugoslavia 1088, 2078 on <i>Platanus</i>
uric acid in 4223	oviposition by 6474	in Yugoslavia 2078
Coptotermes heimi colony development in 1895	Cornus sanguinea, Rhagoletis cerasi on, oviposition by 6474	resistance to 1088 Corythucha morrilli
humidity as affecting 6660	cornuta, Elachiptera	biology of 5502
in Pakistan 1895 swarming in 1895	cornuta, Osmia Cornutiplusia circumflexa (see Syngrapha	in USA 5502 on Ambrosia dumosa, in California 5502
wood preferences in 6660 Coptotermes lacteus	circumflexa) cornutus, Aculus	predators of, in California 5502 Corythucha ulmi, in USA 573
digestive enzymes in 3260	cornutus, Enoplops	Cosmolyce boetica (see Lampides boeticus)
gut in, redox potential of 4754 in Eucalyptus regnans wood, effects of	corollae, Metasyrphus (Syrphus) corollae, Syrphus (see Metasyrphus	Cosmopolites sordidus, control of, biological 2981
fungi on 5490	corollae)	Cossoidea, food preferences in, evolution of
in <i>Pinus radiata</i> wood, effects of fungi on 5490	coronata, Platypria coronifer, Deltocephalus (see Recilia	5434 Cossonus linearis
Corallospartium, Anisoplaca ptyoptera on,	coronifera) coronifera, Recilia (Deltocephalus)	in UK 3093 on <i>Salix</i> , in England 3093
in New Zealand 5890 orbetti, Mahasena	Coroxon (see Phosphoric acid, 3-chloro-4-	Cossonus parallelepipedus
orchori, Apion Corchorus capsularis (see Jute)	methyl-2-oxo-2 <i>H</i> -1-benzopyran-7-yl diethyl ester)	in UK 3093 in stored products, imported into USSR
Corchorus olitorius (see Jute)	corpulenta, Anomala	1607
Corcyra cephalonica Bacillus cereus in, pathogenicity of 2618	corpuzae, Aponychus correctus, Sitona	on Salix, in England 3093 Cossus, on fruit trees, in Caucasus 1973
biology of 6639	corrugatus, Baryopadus	cossus, Cossus
review 1111 control of	Corticeus bicolor in Netherlands 532	Cossus cossus in Netherlands 5772
insecticides for 2343, 5809	in bark-beetle galleries, in Netherlands 532	on street trees, in Netherlands 5772 Costa Rica
review 1111 development in, effects of humidity on	Corticoris, taxonomy of 1580	Anthonomus spp. in 2666
6657 in India 4493, 6639	Corticoris pulchellus descriptions of 1580	cacao in, pollinators of 5133 Coleoptera in, on Vigna unguiculata
in Nigeria 6647	illustrations of 1580	1011
in millet grain, development of 6657 in sorghum grain, development of 6657	in USA 1580 on Acer saccharum, in Pennsylvania	Dysdercus bimaculatus in 6099 on Sterculia 113
in stored groundnuts, in Nigeria 6647	1580	Enoclerus signifer in 2171
in stored tamarind pods, in India 4493 mating competitiveness in, effects of γ-	Corticoris signatus descriptions of 1580	Eudiagogus pulcher in, on Sesbania 1909 forest pests in 5172
irradiation on 2724	illustrations of 1580	Formicidae in, on Ochroma 4972 maize in, insect pests of 6371
mating in 2682 parasites of, effects of insecticides on	in USA 1580 on <i>Quercus borealis</i> , in Pennsylvania	Mechanitis polymnia in, on Solanum
2343	1580	5499

```
Costa Rica contd.
                                                                                                                                             Cotton contd.
                                                                                                                                                                                                                                                                                         Cotton contd.
        pesticide use in 4948
                                                                                                                                                    Aphis gossypii on contd.
                                                                                                                                                                                                                                                                                                insect damage to, model 6137
        Phelypera distigma in, on Guazuma 5219
                                                                                                                                                           effects of plant growth regulators on
                                                                                                                                                                                                                                                                                                 insect pests of
                                                                                                                                                                                                                                                                                                      in Barbados
                                                                                                                                                                                                                                                                                                                                              5121, 5122
       Phyllophaga spp. in, on maize 4506
Pinus spp. in, insect pests of 5171
Polistes erythrocephalus in, natural
enemies of 3866
                                                                                                                                                                                                                                                                                                      in Colombia 5125
in Honduras 3557
in Leeward Islands
                                                                                                                                                          in Punjab 6563
in Tamil Nadu 5126
                                                                                                                                                                                                                                                                                                                                                                 5121
                                                                                                                                                           varietal preferences of
                                                                                                                                                                                                                             3819
                                                                                                                                                    arthropod pests of 488
                                                                                                                                                                                                                                                                                                      in Thailand 2539
        sweet potato in, insect pests of 6371
                                                                                                                                                   assessing infestations of 1050, 1550 in Egypt 3816 in Gambia 4182 in Kenya 4181 in Mexico 1050 in New South Wales 2161 in Swaziland 2159, 2160 in Zimbabwe 4720, 5123 resistance to 1050 Autographa californica on, in Arizona 4066
                                                                                                                                                           assessing infestations of 1050, 1550
                                                                                                                                                                                                                                                                                                      interactions of carbohydrate balance
                                                                                                                                                                                                                                                                                               and 2040
resistance to 1134, 2521
varietal preferences of 2532
insecticides in
         Tomaspis insignita in, on banana 5086
 costai, Rhynocoris
costalis, Cacopsylla
costalis, Cuerna
costalis, Nasutitermes
                                                                                                                                                                                                                                                                                                      effects of dew on 5719
effects of rain on 5719
persistence of 2543, 5723
  Costelytra zealandica
       attractants for 2648
                                                                                                                                                                                                                                                                                               integrated management production
systems for 5727
Jacobiasca lybica on, varietal preferences
of 3819
Leptoglossus australis on, feeding by
2242
              formulations of 3723
       control of
     curtural 1422
insecticides for 1422, 5873, 5874,
5875, 5876, 5877
integrated 350
timing of 5876, 5877
in New Zealand 350, 1422, 1949, 3723,
5871, 5872, 5873, 5874, 5875, 5876,
in pastures
                                                                                                                                                   Bemisia tabaci on
distribution pattern of 6567
in Pakistan 2038
in Sudan 4341
                                                                                                                                                                                                                                                                                                 Lygus spp. on
forecasting infestations of 1273
migration from safflower of 2298
                                                                                                                                                    varietal preferences of 3819
bollworm on, varietal preferences of
                                                                                                                                                                                                                                                                                                 L. hesperus on, damage caused by 2512, 3549
                                                                                                                                                             1551
                                                                                                                                                     Bucculatrix thurberiella on, in Arizona
                                                                                                                                                                                                                                                                                                L. lineolaris on
effects of herbicides on 4600
varietal preferences of 2517
Melanoplus spp. on, in USA 820
Myllocerus undecimpustulatus on
       in pastures
       in pastures
assessing infestations of 5878
damage caused by, models of 1949
effects of ploughing on 1422
in New Zealand 350
insecticide susceptibility in, effects of
pathogens on 5873
life history of 5871
natural enemies of, in New Zealand 350
                                                                                                                                                    chlordimeform in, residues of 1543

Colaspis louisianae on, in Louisiana 4310

cotton leaf curl virus in, in Sudan 4341
                                                                                                                                                    Diacrisia obliqua on, development of
                                                                                                                                                                                                                                                                                                      damage caused by 6565
in Chandigarh 6034
varietal preferences of 6565
                                                                                                                                                              1820
                                                                                                                                                    diflubenzuron in, metabolism of 3545
Diparopsis watersi on, in Yemen 4885
                                                                                                                                                                                                                                                                                                Vanetal preferences of 0505

Neurocolpus nubilus on, effects of herbicides on 4600

Nezara viridula on, in Egypt 4062

parathion-methyl in, effects of toxaphene on persistence of 648

Pectinophora gossypiella on damage caused by 1552, 2522, 2533, 5715
                                                                                                                                                    Dysdercus cingulatus on, development of 4597
on pasture grasses
damage caused by 5872
effects of clover on 5872
on pasture legumes, resistance to 1760
costirostris, Listroderes
cosyra, Ceratitis (see Pardalaspis cosyra)
cosyra, Pardalaspis (Ceratitis)
Cothonaspis boulardi
genome adaptation in 4986
host preferences in 4990
hosts of, defence mechanisms of 3166,
4990
parasitising
        on pasture grasses
                                                                                                                                                   4597
Earias spp. on, in Tamil Nadu 5126
E. biplaga on, in Egypt 222
E. insulana on
development of infestation with 5129
in Delhi 2543
in Egypt 227, 5722
in Iraq 4384
in Israel 4061
E. vittella on
effects of gossypol on 5716
in Delhi 2543
in Karnataka 2815
                                                                                                                                                                                                                                                                                                      model of 2523
development of infestation with 5129
effects of irrigation on 483
effects of plant growth regulators on
4990
parasitising
Drosophila melanogaster 4986, 4990
D. simulans 4990
D. yakuba 3166
Cotoneaster, Thamnurgus orientalis on, in Israel 2079
Cotoran (see Fluometuron)
Cotton (Gossypium spp.)
Aceria gossypii on, in Haryana 267
Adelphocoris lineolatus on, in
Tadzhikistan 5714
Agrotis segetum on, in Tadzhikistan
                                                                                                                                                    in Karnataka 2815
Eucelatoria spp. on, attraction of 2540
Euschistus conspersus on, in California
                                                                                                                                                                                                                                                                                                      effects of plant growth stage on 5715 effects of sowing date on 2039 forecasting infestations of 1273, 1276 in Arizona 491, 492, 1745, 3556, 4070,
                                                                                                                                                             5364
                                                                                                                                                    Frankliniella spp. on
damage caused by 4071
resistance to 3554
                                                                                                                                                                                                                                                                                                                4607
                                                                                                                                                                                                                                                                                                      in California 1038, 1745, 2529, 2549, 3043, 3556
                                                                                                                                                                                                                                                                                               3043, 3556
in Delhi 2543
in Egypt 222, 227, 4383, 5722
in Haryana 6564
in Karnataka 1547, 1548
in Pakistan 495, 1950
in Punjab 4068, 6560, 6561
in Tamil Nadu 5126, 6562
resistance to 2524, 5726
Pempherulus affinis on, in Tamil Nadu 2537
pest control on 488, 1050, 2531, 2657
                                                                                                                                                    Graphognathus peregrinus on, oviposition
                                                                                                                                                    by 3760
Gryllotalpa gryllotalpa on, in Egypt
                                                                                                                                                              1043
                                                                                                                                                   1043
Heliothis spp. on
assessing infestations of 1036, 2531
damage caused by 1036, 6570
in Colombia 6023
in Mexico 1662
in Mississippi 2528
in New South Wales 1518
in Texas 1045, 5725
resistance to 2513, 2525
varietal preferences of 2514, 2516,
2517
H. armigera on
         Agrotis segetum on, in Tadzhikistan
                 2818
       Amrasca biguttula on
effects of sowing date on 2039
in Orissa 413
in Punjab 5719, 6561
resistance to, relation of organic acids
and 6568
                                                                                                                                                                                                                                                                                                 pest control on 488, 1050, 2521, 3557,
      resistance to, relation of organic acids and 6568

A. devastans on effects of fertilizers on 3038 in Delhi 2543 in Pakistan 2038 resistance to 1553, 4067

Anthonomus grandis on assessing infestations of 2530 forecasting infestations of 1276, 2534 in Florida 482 in Mississippi 2037, 2544 in North Carolina 2526 in South Carolina 481, 482, 2526 in Texas 3042, 4602, 4605 in USA 6057 in Virginia 2526 interactions of 484 oviposition by 3555 resistance to 2513, 3554

Aphididae on, in Greece 6302

Aphis craccivora on distribution pattern of 4339 effects of neighbouring crops on 4339

A. gossypii on distribution pattern of 4339 effects of neighbouring crops on 4339
                                                                                                                                                                                                                                                                                                         5123
                                                                                                                                                                                                                                                                                                      biological 1646, 6001
cultural measures for 491
economics of 1549
evaluating of 222
in Barbados 5122
                                                                                                                                                   H. armigera on
in Israel 1037, 5724
in Karnataka 1493, 4059
in New South Wales 4608, 6569
in South Africa 489
in Tadzhikistan 5714
in Tamil Nadu 5126
in Thailand 5128
                                                                                                                                                                                                                                                                                                      in Barbados 5122
in Central America 4950
in Egypt 3816
in Guatemala 4952
in Nicaragua 4951
insecticides for 1686, 2511
integrated 3046, 3825, 4885, 5125, 5714, 5943
right-time aerial spraying for 4953
                                                                                                                                                          in Thailand 5128
in Yemen 4885
                                                                                                                                                                                                                                                                                               5714, 5943
night-time aerial spraying for 4953
registration of pesticides for 2527
side-effects of 4951
spray schedules for 6561
systems analysis applied to 2114
thresholds for 2528
timing of 1036, 2038, 2529
ULV sprays for 1673
pest management on 1141, 1276, 2040, 2532
                                                                                                                                                    H. punctigera on, in New South Wales 4608, 6569
                                                                                                                                                    H. virescens on
                                                                                                                                                         damage caused by 2515, 2518 effects of yellow pollen on 2542 enzymes in 1214 in Mexico 2295 in Mississippi 4060 in South Carolina 3552 in Texas 4603 varietal preferences of 2518
        A. gossypii on distribution pattern of 4339 effects of fertilizers on 3038
                                                                                                                                                           varietal preferences of 2518
                                                                                                                                                                                                                                                                                                in New South Wales 4598, 4599
pests of, in Karnataka 4183
Phycita infusella on, effects of sowing date
                                                                                                                                                    H. zea on
                                                                                                                                                          in South Carolina 3552
              effects of neighbouring crops on 4339
                                                                                                                                                           resistance to, evaluation of 2783
                                                                                                                                                                                                                                                                                                          on 2039
```

	0,000 2314031	
	tton contd.	Cotton pollen, H
	Polyphagotarsonemus latus on, in Brazil 1544	development Cottonseed
	Psallus seriatus on	carbaryl in, re
	damage caused by 2512, 2548, 3549 forecasting infestations of 2541	Oxycarenus hy developmen
	resistance to 2525 varietal preferences of 1047, 2517	excretion by Pectinophora
	Pseudoplusia includens on, feeding preferences of 6201	3037 Cottonseed extra
	pyrethroids in	Dysdercus fase
	degradation of 3544 persistence of 4063	Oxycarenus hy
	Sacadodes pyralis on, in Colombia 5124 Spanagonicus albofasciatus on, damage	responses t
	caused by 2512, 3549	diet componer 1847
	Spodoptera exigua on development of 4329	in insect virus
	in California 480	Cottonseed oil against
	in Egypt 4327 in South Carolina 3552	Sitophilus of
	S. frugiperda on, resistance to 2513	Sitotroga ce 6658
	S. littoralis on effects of gossypol content on 485	in insect virus insect growth
	in Egypt 3822, 4065, 4386	4385
	in Israel 1742 in Turkey 4063	insecticidal ac Cottonwood, eas
	Sylepta derogata on effects of sowing date on 2538	Cottonwood, Fre
	varietal preferences of 2538	fremontii) Cottonwood, nar
	Tetranychidae on, resistance to 2520 Tetranychus spp. on, in Tadzhikistan	angustifolia) Coturnix coturni
	5714	Coumarin (see 2
	T. cinnabarinus on effects of humidity on 2535	Counter (see Ter Courgette (see S
	effects of temperature on 2535	Cousinia, Spheci
į	in Haryana 267 varietal preferences of 3819	3337 Cover crops
	T. turkestani on, effects of insecticides on 4384	in cabbage fiel effects on C
	T. urticae on	effects on D
	effects of humidity on 2535 effects of temperature on 2535	in oat fields, e
	in Brazil 1545, 1546	coweni, Gillettee
١	Thrips tabaci on damage caused by 4071	Cowpea (see Vig
ı	effects of fertilizers on 3038	in _
ı	in Pakistan 2038 in Punjab 5127	Cerotoma ti 2007
ı	varietal preferences of 3819 Trichoplusia ni on	Diabrotica u transmis
ı	development of 5427	Epilachna v
0	in California 480 otton fibre, effects of insecticides on	2007 Cowpea mosaic
	quality of 227	in Cerotoma a
-	otton-field borders, predatory arthropods in, in Queensland 2546	1011
	otton fields Apis mellifera in, protection from	C. ruficorni Diabrotica a
ı	insecticides of 1877	1011
ı	Araneae in, in Mississippi 1046 Chrysopa carnea in, in Arizona 5273	Epilachna v 1011
۱	Chrysopidae in, in Zimbabwe 3041 Coccinellidae in, in West Indies 249	Gynandrobi of 101
ı	insecticides in, non-target effects of 4065	Vigna ungu
ı	Nabis americoferus in, effects of insecticides on 480	Coxequesoma, he CPCBS (see Ch
ı	parasitic insects in	Crab apple
ı	effects of herbicides on 4600 effects of insecticides on 3547	Eutromula par Columbia
ı	in Andhra Pradesh 6310 in Tamil Nadu 3558	Pandemis hepa Columbia
ı	predatory arthropods in	craccivora, Aphi
ı	effects of herbicides on 4600 effects of insect-resistant varieties on	cracoviensis, Cry Crambidae, fligh
ı	1047	crambidoides, D.
	effects of insecticides on 1042, 2514 in Mississippi 2528	Crambus, on Cy.
	in Tamil Nadu 3558 migration from safflower fields of	cramerella, Acro Craspedolepta
	2298	in Nearctic re
	sampling of 1550 predatory insects in	on Solidago, in taxonomy of
	effects of insecticides on 3547, 4384	Craspedolepta ci
	in Arizona 5720 in Queensland 4058	sp. nov., descr in USSR 147
	Solenopsis invicta in, not affecting predatory arthropods 4601	on Artemisia, Craspedolepta de
C	otton leaf curl virus	sp. nov., desci

Bemisia tabaci, transmission of 4341

cotton, in Sudan 4341

eliothis virescens in, crassipalpis, Sarcophaga of 2519 crassispinus, Acromyrmex crassiusculus, Xyleborus (Xylosandrus) crassiusculus, Xylosandrus (see Xyleborus sidues of 2547 alinipennis in crassinsculus) 1542 Crassula lycopopioides, Pulvinaria delottoi on, in South Africa 5140 of 3748 crassus, Microcerotermes gossypiella in, in Punjab crataegi, Aporia crataegi, Bucculatrix ciatus feeding responses to Crataegus Acronicta spp. on, in England 4100
Caliroa cerasi on, in Lithuania 5396
Dysaphis seselii on, in Crimea 5182
Elasmucha antennata on, in Turkey 4095 valinipennis feeding t for, Anthonomus grandis Hemithea aestivaria on, in British Columbia 1974 Pandemis heparana on, in British Columbia 950 formulations 4066 Cratagus oxyacantha, Bryobia cristata on, in UK 1451 crawfordi, Doryctobracon CRD (see Triazophos) ryzae, in stored grain 6658 realella, in stored grain formulations 4066 Creatonotos gangis in India 2369 regulators formulated in on Eleusine coracana, in Andhra Pradesh tivity of extracts of 663 2369 tern (see Populus deltoides) emont (see Populus Cremastinae, in British Isles 4211 Cremastocheilus castaneae Formica integra sharing food with preying on, Formica integra 824 rowleaf (see Populus Crematogaster
chemical crypsis in 1876
in cacao plantations, effects of insecticides
on 2043 x (see Quail) H-1-Benzopyran-2-one) rbufos) on Ochroma pyramidale, nectar production and 4972 quash) dae on, in Uzbekistan prey of, not repelled by mandibular-gland secretion 1876 preying on, Saissetia oleae, in Libya 5083 arabidae of 5928 elia brassicae of 6506 sting apparatus in 2809 ffects on Oscinella frit of Crematogaster ashmeadi in USA 6627 preying on, Eriocraniella spp., in Florida na unguiculata) 6627 e mottle virus Crematogaster peringueyi, in South Africa 557 Crematogaster punctulata in USA 1943 rifurcata, transmission of preying on, Surattha indentella, in Kansas 1943 ındecimpunctata, sion of 2007 arivestis, transmission of Cremifania nigrocellulata, preying on,
Adelges piceae, and biological control
using, in British Columbia 6636
Crenidorsum, taxonomy of, characters
distinguishing Aleurotuba and 3565
crenilata Atreatements virus trofasciata, transmission of crenulata, Atractomorpha Creontiades, on cotton, in Honduras 3557 transmission of 1011 delpha, transmission of Creosote against, Batocera spp., on mulberry 378 arivestis, transmission of resistance to, in, Limnoria tripunctata, associated with gut flora 4130 associated with gut flora 4130
cresphontes, Papilio
Cress, hoary (see Cardaria draba)
cretica, Sesamia
cribraria, Argina
cribricollis, Otiorhynchus
cribulosus, Melanotus
Cricket paralysis virus
in, Drosophila melanogaster, polypeptides
induced by 5844
proteins in 5844 otica variabilis, transmission iculata, in Costa Rica 1011 oldfast structures in 4414 lorfenson) riana on, in British 951 arana on, in British 950 Cricotopus sylvestris
in USA 5556
on rice, in California 5556 ntoxiloides t activity in 3771 preyed on by, Hydrophilidae, in California 5556 iatraea nodon dactylon, assessing 2412 Cricula trifenestrata chromosomes in 4624 cercops in India 4624 on Machilus odoratissima, in Meghalaya 1181 1180 Quebec 4624 1179, 1180, 1181 crinita, Phyllophaga Crinum defixum, insecticidal activity of extracts of leaves of 1675 iption of 147 Criocephalus rusticus (see Arhopalus in Maritime Territory 147 rusticus) Crioceris asparagi in Netherlands 6502 on asparagus, in Netherlands 6502 parasitised by, Tetrastichus asparagi, in Netherlands 6502 Craspedolepta dorecinica sp. nov., description of 147 in USSR 147 on Artemisia, in Maritime Territory 147 crassicauda, Megoura

Mocis spp. in, natural enemies of 3853

```
Crioceris duodecimpunctata
in Netherlands 6502
                                                                                                                                                                                                                                                  Cryptolestes klapperichi contd.
in cassava products, in West Malaysia
                                                                                                                         Cryphalus piceae contd.
                                                                                                                               preyed on by, Medetera polonica, in
Poland 3594
       on asparagus, in Netherlands 6502
                                                                                                                                                                                                                                                                1106
      parasitised by, Tetrastichus spp., in Netherlands 6502
                                                                                                                          Cryphalus populi
                                                                                                                                                                                                                                                        in stored nutmegs, in Sri Lanka 1106
                                                                                                                               in USA 2589
                                                                                                                                                                                                                                                        taxonomy of
 Crispatine, in Crotalaria, uptake by
Arctiidae of 5450
                                                                                                                               mortality in 2589
                                                                                                                                                                                                                                                             characters distinguishing C. ferrugineus
                                                                                                                               on Populus tremuloides, in Utah 2589
                                                                                                                                                                                                                                                                     and 1106
Arctiidae of 5450
cristata, Bryobia
cristata, Diabrotica
critica, Cydia (Eucosma)
critica, Eucosma (see Cydia critica)
Criticaseter, in Trinidad 2768
crocea, Colias
croceipes, Microplitis
Crocidolomia binotalis
control of, insecticides for 3221, 5956
in Australia 2005
                                                                                                                               rearing of, diets for 2589
                                                                                                                                                                                                                                                             characters distinguishing C. pusillus an
                                                                                                                          Cryphula affinis
                                                                                                                                                                                                                                                                      1106
                                                                                                                               in Trinidad and Tobago 2348
                                                                                                                                                                                                                                                  Cryptolestes pusillus
in Malaysia 1106
in Sri Lanka 1106
                                                                                                                               on Stachytarpheta jamaicensis, in Trinidad
                                                                                                                                       2348
                                                                                                                                                                                                                                                        in cassava products, in West Malaysia
                                                                                                                                taxonomy of, characters distinguishing C.
                                                                                                                                                                                                                                                                1106
                                                                                                                                       bennetti and 2348
                                                                                                                                                                                                                                                        in stored nutmegs, in Sri Lanka 1106
                                                                                                                          Cryphula bennetti
                                                                                                                               sp. nov., description of 2348
in Trinidad and Tobago 2348
                                                                                                                                                                                                                                                        taxonomy of
                                                                                                                                                                                                                                                              characters distinguishing C. ferrugineu
      insecticide susceptibility in, effects of droplet size on 5956
                                                                                                                                                                                                                                                                    and 1106
                                                                                                                               on Stachytarpheta jamaicensis, in Trinidad
                                                                                                                                                                                                                                                  characters distinguishing C. klapperich
and 1106
Cryptophlebia leucotreta
control of
 unopiet size oil 322 o
                                                                                                                                       2348
                                                                                                                         Cryptanthus, Rhizoecus hibisci on, in
Florida 1060
                                                                                                                         Crypticerya, on Shorea talura, in Karnataka
1359
                                                                                                                                                                                                                                                             cultural 982
                                                                                                                                                                                                                                                        sterile-insect release for 5620 flight activity in 6444 in South Africa 982, 5620, 6444
                                                                                                                         Cryptoblabes adoceta
biology of 1938
illustrations of 1938
in Australia 1938
 Croneton (see Ethiofencarb)
 Crookneck (see Squash)
Crop damage, data bank on 1913
                                                                                                                                                                                                                                                        mating competitiveness in, effects of γ-
irradiation on 6094
 Crop density
                                                                                                                         on sorghum, damage caused by 1938

Cryptoblabes gnidiella

biology of 858

control of, insecticides for 858

descriptions of 250
                                                                                                                                                                                                                                                        on Harpephyllum caffrum, development 1466
       of rice
            effects on Dicladispa armigera of 907 effects on Nilaparvata lugens of 342,
                                                                                                                                                                                                                                                        on orange
                                                                                                                                                                                                                                                      damage caused by 982 in South Africa 5620 on peach, in South Africa 6444 parasitised by, Trichogrammatoidea cryptophlebiae 2169 sterilisation of, \gamma-irradiation for 5620, 6094
                                                                                                                               descriptions of 858 in India 858
 effects on Orseolia oryzae of 6394
Crop fields, Curculionidae in, in Poland
6536
                                                                                                                         on Azolla anabaena, in Orissa
Cryptocephalus coryli, in USSR
Cryptocephalus insubidus
in India 2449
 Crop plants
      arthropod pests of, book 818
Curculionidae on, in Tasmania 1441
                                                                                                                                                                                                                                                               6094
      insect pest population dynamics as affected by resistance in 5961 insect pests of, defence mechanisms against 4144
                                                                                                                               on Litchi chinensis, in Uttar Pradesh 2449
                                                                                                                                                                                                                                                        traps for
                                                                                                                                                                                                                                                  Cryptophlebia ombrodelta, parasitised by,
Trichogrammatoidea fulva 2169
                                                                                                                         Cryptococcus fagi (see C. fagisuga)
Cryptococcus fagisuga
dispersal of 3577
in UK 3577, 6602
                                                                                                                                                                                                                                                  cryptophlebiae, Trichogrammatoidea
Cryptorhynchus lapathi
control of, insecticides for 511
in Canada 511
      insect population regulation on 1674 insecticides in, residues of, Japanese
      tolerances for 6722
Meloidae on, in India 2313
mites on, in Nigeria 6269
whitefly-transmitted viruses in, review 3148
                                                                                                                               on Fagus, relation of Nectria coccinea and 6602
                                                                                                                                                                                                                                                        on Populus, in Quebec 511
                                                                                                                                                                                                                                                  Cryptoserphus, parasitising, Mycetophiloide 2340
                                                                                                                         on Fagus sylvatica, in UK 3577
Cryptolaemus, rearing of 2118
                                                                                                                         Cryptolaemus montrouzieri
in Australia 3510, 3511
in India 6582
                                                                                                                                                                                                                                                   Cryptostigmata
                                                                                                                                                                                                                                                 Cryptostigmata
in drained bogs, in Irish Republic 3425
in pastures, in Irish Republic 3425
on Ulmus carpinifolia, associated with
Scolytus 4626
Cryptotermes, in Ethiopian region 5002
Cryptotermes brevis
biology of 5002
control of 5002
dispersal of 5002
in South Africa 5002
Cryptotermes cavifrons, uric acid in 4233
 Crop production, model 6137
Crop production, model 6137
Cropping systems, for soyabean, effects on insect pests of 5673
Crossotarsus wallacei
in Indonesia 4098
in Gonystylus bancanus wood, in West
Kalimantan 4098
Crotalaria, Arctiidae on, uptake of
pyrrolizidine alkaloids by 5450
Crotalaria juncea, pest control on, plant
extracts for 2132
Crotalaria spectabilis. Graphognathus
                                                                                                                               in passion-fruit orchards, effects of insecticides on 3511
                                                                                                                               insecticides in, toxicity of 5631
                                                                                                                               preying on Chloropulvinaria psidii, in Tamil Nadu
                                                                                                                                            6582
                                                                                                                         Planococcus spp., in Tamil Nadu 6582
P. citri, in Queensland 3510, 3511
Pseudococcidae, and biological control
using, in Chile 4174
cryptolechiella, Psilocorsis
Cryptolestes
                                                                                                                                                                                                                                                  Cryptotermes cavifrons, uric acid in 4
Cryptotermes dudleyi, in China 6332
Cryptotermes havilandi
distribution of 5002
 Crotalaria spectabilis, Graphognathus peregrinus on, oviposition by 3760 Crotalaria witches' broom, causal agent, in,
         Orius orientalis, transmission of 1005
                                                                                                                               control of
                                                                                                                                                                                                                                                        in China 6332
Crotalsriae, Amblyseius
Croton, Psallus seriatus on, in Texas 2541
Crotoxyphos (1-phenylethyl (E)-3-
[(dimethoxyphosphinyl)oxyl-2-butenoate)
in soil, degradation of 5271
crouanii, Graeffea
cruciferae, Phyllotreta
cruciferarum, Bagrada (see B. hilaris)
Crucifers
                                                                                                                               fumigants for 6646
insecticides for 3679
in cacao beans, in Nigeria 6646
                                                                                                                                                                                                                                                   Cryptotermes merwei, distribution of 5002
                                                                                                                                                                                                                                                   Cryptoxiloides cracoviensis
                                                                                                                                                                                                                                                        gen. et sp. nov., description of 3601 in Poland 3601
                                                                                                                               in maize grain, in Minnesota 6170
                                                                                                                         in stored groundnuts, in Kansas 3679 Cryptolestes ferrugineus
                                                                                                                                                                                                                                                        parasitising, Cryphalus piceae, in Poland
                                                                                                                                                                                                                                                                3601
                                                                                                                               aggregation pheromone in 2198
                                                                                                                                                                                                                                                  Cryptus, taxonomy of 3341
Ctenicera destructor, mandibles in 1772
                                                                                                                               control of
                                                                                                                              insecticides for 2093, 4125
protective atmospheres for 1116
in Canada 4668
in UK 4660
in USA 4125
                                                                                                                                                                                                                                                  Ctenicera pruinina
control of, insecticides for 3536
in USA 3536
on potato, in Washington 3536
Ctenophtalmus nobilis, air resistance of 1784
 Crucifers
insect pests of, in Quebec 269
Otiorhynchus cribricollis on, in Italy 992
crucivora, Artogeia rapae
crucivora, Pieris rapae (see Artogeia rapae
crucivora)
                                                                                                                               in maize grain, in Kansas 4125
in sunflower seeds, interactions with other
pests of 3681
 crudus, Haplaxius (see Myndus crudus) crudus, Myndus (Haplaxius)
                                                                                                                                                                                                                                                  Ctenopseustis obliquana
                                                                                                                                                                                                                                                        control of, insecticides for
 cruentatus, Rhipiphorothrips
Crustacea, preying on, molluscs 4449
Crymodes devastator (see Apamea
                                                                                                                                                                                                                                                  in New Zealand 5888
on apple, in New Zealand
Ctenuchidae, in British Isles
                                                                                                                               in wheat grain, interactions with other pests of 4668
                                                                                                                               malathion bioassay using 5223
parasitised by, Cephalonomia waterstoni,
in Manitoba 4668
         devastatrix)
 Cryolite, against, Eublemma amabilis 1350
Cryoprotectants, for spores of Microsporidia
                                                                                                                                                                                                                                                        Bemisia tabaci in, on Phaseolus vulgaris
                                                                                                                                taxonomy of
                                                                                                                                                                                                                                                                4033
                                                                                                                                     characters distinguishing C. klapperichi
                                                                                                                                                                                                                                                        Danaus plexippus in 2249
 1651
Cryphalus abietis, in UK 3091
Cryphalus piceae
in Poland 3594, 3601
on Abies alba, in Poland 3594, 3601
parasitised by, Cryptoxiloides cracoviensis,
in Poland 3601
                                                                                                                                                                                                                                                        Elasmopalpus lignosellus in, natural enemies of 3852
Ichneumonidae in 3099
                                                                                                                                            and 1106
                                                                                                                                     characters distinguishing C. pusillus and 1106
                                                                                                                         Cryptolestes klapperichi
in Malaysia 1106
in Sri Lanka 1106
                                                                                                                                                                                                                                                        Lissorhoptrus brevirostris in, on rice 3953
```

a contd. ogatodes orizicola in, natural enemies of	Cucurbits contd. Epilachna chrysomelina on, in USSR	Cupressus lusitanica, insect pests of, in Colombia 5170
4445	6507	Cupressus sempervirens
podoptera frugiperda in, natural enemies of 2107	Myiopardalis pardalina on, in Turkey 1311	Cinara cupressi on, damage caused by 1077
ubebene, with 5-ethyl-2,4-dimethyl-6,8-	Otiorhynchus cribricollis on, in Italy 992	Cyphostethus tristriatus on, in Turkey
dioxabicyclo[3.2.1]octane, and 4-methyl- 3-heptanol, attractant for, <i>Scolytus</i>	pest control on, biological 6691 pest management on 1488	4095 Cupressus sergentii
multistriatus 2055, 4924, 5152, 6207	Tephritidae on, in Nigeria 422	Eremocoris cupressicola on, in California
pocephalus, in Lithuania 5390 Lullia argentea, on Artemisia absinthium	Tetranychus cinnabarinus on, in Haryana 267	2063 Kleidocerys obovatus on, in California
1905	viruses in, aphid transmission of 1485	2063
Lumber and gherkin (Cucumis sativus) Aphis gossypii on	Cue-lure (4-[4-(acetyloxy)phenyl]-2- butanone)	Cupressus (wood), pest control in 5180 cupreus, Rhynchites
effects of cucumber mosaic virus on	attractant for Dacus cucurbitae 1501	cuprina, Lucilia cupulatus, Platypus
4749 in Kyushu 1502	Tephritidae 3701	Curacron (see Profenofos)
resistance to 5660	Cuerna costalis in USA 2448	Curare, in <i>Drosophila melanogaster</i> , toxicity of 6699
rthropod pests of in California 1488	on peach, in Florida 2448	Curaterr (see Carbofuran)
in Kenya 4181	seasonal abundance of 2448 Culex, biology of 2233	Curculio caryae attractants for 947
in UK 6508 Bradysia agrestis on, in Honshu 1557	Culex pipiens, cytoplasmic incompatibility in 6240	Beauveria bassiana in, in Oklahoma 278:
Chrysodeixis chalcites on, in Netherlands	Culex pipiens quinquefasciatus (see C.	biology of 3462 in USA 947, 1970, 2782, 3462
423 Diaphania indica on, feeding by 2477	quinquefasciatus) Culex quinquefasciatus	on pecan assessing infestations of 3462
nsect pests of, in Quebec 269	control of, growth regulators for 3228	in Arkansas 947
nsecticides in, toxicity of 6700 eptophos in, removing residues of 6721	flight activity in, rhythm of 2255 Culex tarsalis	nut cluster size not affecting 1970 sex pheromone of 947
Liriomyza sativae on, in Ohio 229	control of, non-target effects of 678	Curculio elephas
best control on 6508 biological 6691	in USA 678 Culex tritaeniorhynchus, Bacillus	in France 3144, 3461 in sweet chestnuts, in France 3144
companion crops for 3512	thuringiensis in, pathogenicity of 3155	on Castanea, in France 3461 Curculio nucum
insecticides for 1870 pest management on 1488	Culicidae control of	biology of 6454
Tetranychus urticae on effects of cucumber mosaic virus on	biological 5248 genetic 4797	in Yugoslavia 6454 on hazel, damage caused by 6454
4749	insecticides for 629, 669	Curculio pyri (see Phyllobius pyri)
in Netherlands 193 in Ohio 229	non-target effects of 678 Filarioidea in, avoidance of immune	Curculionidae control of
resistance to 5102	responses by 5231	cultural 1441
Trialeurodes vaporariorum on assessing infestations of 5661	Microsporidia in, recovery of spores of 613	insecticides for 1441 genitalia in 5306
development of 196, 197, 198, 5661	morphological markers for 4812	in Chandigarh 5404, 5405
distribution pattern of 424, 5661 feeding preferences of 195	traps for 1317 Culicoides	in Kansas 1835 in New Zealand 4304
in Ohio 229	breeding places of 3052	in Poland 3776 in Soviet Far East 152
in Sweden 5645 parasitism of 199, 3808	in Calathea inter-bract liquid, in Brazil 3052	in Yugoslavia 4863
watermelon mosaic virus in, in Kyushu 1502	preyed on by, <i>Holcocephala fusca</i> , in Virginia 3350	in crop fields, in Poland 6536 in eucalypt forests, in Victoria 5763
cumber fields, insect growth regulators in,	Culicoides insignis	in pine forests, in Victoria 5763
effects on soil-inhabiting mites of 2478 cumber mosaic virus	in Colombia 4080 on cacao, in Colombia 4080	in pine wood, in El Salvador 5167 in woodland, in Czechoslovakia 5201
control of, vector control for 1485	Culicoides pusillus	on Citrus, in Florida 2971
Aphis craccivora, transmission of 435	in Colombia 4080 on cacao, in Colombia 4080	on Eichhornia crassipes 274 on forest trees, in Sweden 5768, 5769
A. gossypii, transmission of, strain differences in 5099	Cultivation, soil, in black-currant fields, role in pest control of 3456	on Galinsoga, in Americas 4487 on Pinus, in Sweden 5747
cucumber	Cumin (see Cuminum cyminum)	curculionis, Bathyplectes
effects on Aphis gossypii of 4749 effects on Tetranychus urticae of	Cumin, black (see Nigella sativa) cumingii, Promecotheca	curculionis, Nealiolus Curculionoidea
4749	Cuminum cyminum (stored seeds),	in Chandigarh 5404, 5405
in UK 6508 Myzus persicae, transmission of 6508	Lasioderma serricorne in, development of 2608	on Pinus, in Italy 5741 preyed on by, Cerceris watlingensis, in
Vigna radiata, in Missouri 435	Cunaxa, in Rajasthan 1361	Bahamas 4930 Curcuma longa (see Turmeric)
cumis, Austrodacus (see Dacus cucumis) cumis, Dacus (Austrodacus)	cunea, Hyphantria cuneatus, Polymerus (see P. testaceipes)	Currant
ucumis melo var. cantaloupensis (see	cunicularia, Formica cunicularius, Hylastes	Aphididae on, in Poland 3982 Hyperomyzus lactucae on, in Australia
Melon (cantaloupe and musk)) ucumis melo var. inodorus (see Melon	Cunninghamia lanceolata, Oligonychus	5947
(cantaloupe and musk)) ucumis sativus (see Cucumber and	jiangxiensis on, in China 4866 Cupedidae	Nematus ribesii on, in Austria 1755 Tetranychus urticae on, in Australia
gherkin)	in Canada 2556	5947
ucumis utilissimus carbaryl in, residues of 5663	in USA 2556 taxonomy of 2556	Currant, black (Ribes nigrum) Cecidophyopsis ribis on 5056
Dacus cucurbitae on, in Rajasthan 5663	Cuphea, Rhizoecus hibisci on, damage	in UK 4548 currant reversion virus in, in UK 4548
malathion in, residues of 5663 ucurbita maxima (see also Squash)	caused by 1060 Cuphocera, parasitising, Mythimna spp., in	Dasineura tetensi on, damage caused by
ucurbita moschata (see also Squash) Dacus cucurbitae on, development of	Queensland 1921 cuprea, Anomala	3456 Irenimus compressus on, in New Zealand
5098	cupreata, Clostera (Pygaera)	6720
ducurbita pepo (see also Squash) ucurbitacearum, Tetranychus (see T.	cupreata, Pygaera (see Clostera cupreata) Cupressaceae, Carulaspis juniperi on, in	Synanthedon tipuliformis on distribution pattern of 1963
cinnabarinus)	New Zealand 2083	in New Zealand 1444
ucurbitacins, in pumpkin, associated with susceptibility to Aulacophora foveicollis	cupressi, Cinara cupressicola, Eremocoris	Tetranychus urticae on, in UK 268 Currant, red, Cecidophyopsis ribis on 5056
3001	Cupressus	Currant reversion virus
ucurbitae, Dacus ucurbits	insect pests of, in Italy 6592 Lachnidae on, in Italy 2082	black currant, in UK 4548
arthropod pests of, in California 1488 Diaphania indica on, in Yemen 2477	Cupressus arizonica, Cinara cupressi on, damage caused by 1077	Cecidophyopsis ribis, transmission of 4548
2 10 printing and to the and and and		

946 cursitans, Campoplex cursor, Cataglyphis curtifrons, Cephalops curtipennis, Chorthippus curtisii, Amblysellus curtus, Lemophagus curva, Xyela curvicornis, Myllocerus curvignathus, Coptotermes curvimaculatus, Chelonus curvipes, Anoplocnemis Cuscuta, control of 1554 Cuscuta reflexa, citrus tristeza virus in, transmission of 2978 Cushaw (see Squash) Cutting of grassland effects on Hemiptera of 3434 effects on Heteroptera of 3443 effects on invertebrates of 3431, 3437 of Lolium, effects on Abacarus hystrix of Cutting date, of lucerne, effects on Hypera postica of 1655 Cutworm (see Noctuidae) Cyamophila odontoptyx in Turkey 1310 on Castanea sativa, in Turkey 1310 Cyamopsis tetragonoloba, Amsacta moorei on, in Rajasthan 5101 cyanea, Altica cyanea, Scutellista cyanella, Lema Cyaneolytta, in India 6122 Cyanofenphos (O-(4-cyanophenyl) O-ethyl phenylphosphonothioate) against, Schistocerca gregaria, on wheat

Cyanotis vaga, insect moulting hormones in 2844

Cybocephalus

preying on Neomaskellia bergii, in Uttar Pradesh 2351

Saissetia oleae, in Libya 5083
Cybocephalus sphaerula 5083
Cyclamen, Rhizoecus palestineae on 3057

Cyclase, adenylate
in Drosophila melanogaster imaginal disks
not affected by juvenile hormone 3278
not affected by moulting hormones

in Locusta migratoria brain, effects of proctolin on 2212 Cyclic AMP (see Adenosine, 3',5'-(hydrogen

phosphate))
Cyclic GMP (see Guanosine, cyclic 3',5'-(hydrogen phosphate))

Cyclidiidae, taxonomy of 5295

Cyclobutaneethanol, 1-methyl-2-(1-

methylethenyl)-(1R-cis)- (see also Grandlure) Anthonomus grandis responses to 2203

Cyclocephala, Bacillus popilliae in, in Ohio

Cyclocephala borealis flight activity in, relation of coloration and 2184 in USA 2184

Cyclocephala parallela control of, insecticides for 3445 in USA 3445

on Cynodon magennisii, in Florida 3445

on Cyllodon magennisi, in Fronda 344
1,5-Cyclodecadiene, 1,5-dimethyl-8-(1methylethylidene)-, in Papilio protenor
larval osmeterial secretion 4234
Cyclohexane, 1-ethenyl-1-methyl-2,4-bis(1methylethenyl)-, in Papilio protenor
larval osmeterial secretion 4234
Cyclohexane, 1,2,3,4,5,6-hexachloro- (see
HCH)

HCH)

 $(1\alpha,2\alpha,3\beta,4\alpha,5\alpha,6\beta)$ - (see Lindane) Cyclohexanecarboxylic acid, 4(or 5)-chloro-2-methyl-, 1,1-dimethylethyl ester (see Trimedlure)

Cyclohexanol, 5-methyl-2-(1-methylethyl)-in Mentha piperita 4785 in Peridroma saucia diet, effects on enzyme activity of 4785

Cyclohexanol, 5-methyl-2-(1-methylethyl)contd. (--)attractant for, Nasutitermes nigriceps 6331 in Microcerotermes crassus, toxicity of 6331 in Nasutitermes nigriceps, toxicity of 6331 in Reticulitermes speratus, toxicity of 6331 in Microcerotermes crassus, not toxic 6331 in Nasutitermes nigriceps, not toxic 6331 in Reticulitermes speratus, not toxic 6331 repellent for, Nasutitermes nigriceps 6331 Cyclohexanone, 5-methyl-2-(1-methylethyl)transin Mentha piperita 4785 in Mentina piperita 4765 in Peridroma saucia diet, effects on enzyme activity of 4785 Cyclohexene, 3-methylene-6-(1-methylethyl)-, in Papilio protenor larval osmeterial secretion 4234 Cyclohexene, 1-methyl-4-(1-methylethenyl)-in Niesthrea louisianica exocrine secretions 4236 in Papilio protenor larval osmeterial secretion 4234 (-)-, Anthonomus grandis responses to 2203 2-Cyclohexen-1-one, 3-methylaggregation disrupter for Dendroctonus pseudotsugae D. rufipennis 5738 Dendroctonus pseudotsugae responses to 5992 3-Cyclohexen-1-one, 3-methyl-, aggregation disrupter for, Dendroctonus
pseudotsugae 2596
Cycloneda munda, Coccipolipus epilachnae
not parasitising 457
Cycloneda sanguinea
in Barbados 5121 in Brazil 4004 in Mexico 1653 in USA 4603 in citrus groves, effects of insecticides on 4004 in maize fields, in Mexico 1653 preying on Aphis gossypii, in Barbados 5121 Heliothis virescens, in Texas 4603

Toxoptera citricida, in Brazil 4004 seasonal abundance of 1653

Cyclopentaneacetaldehyde, 2-formyl-a,3-

dimethyl-, Graeffea crouanii defensive-secretion component 3984 Cyclopenta[c]pyran-1(4aH)-one, 5,6,7,7a-tetrahydro-4,7-dimethyl-, Graeffea crouanii defensive-secretion component 3984

Cyclopenta[c]pyran-3(4H)-one, 4a,5-dihydro-4,7-dimethyl-

in Linaeidea aenea defensive secretion 4767

in *Plagiodera versicolora* defensive secretion 4767 2-Cyclopentene-1-acetaldehyde, 2-formyl-

 α ,3-dimethylin Linaeidea aenea defensive secretion

4767 in Plagiodera versicolora defensive secretion 4767

3-Cyclopentene-1-acetaldehyde, 2-formyl-a,3-dimethyl-, in *Plagiodera versicolora* defensive secretion 4767

Cyclophora nanaria serrulata in Chile 4406 on olive, in Chile 4406 on Schinus molle, in Chile 4406 Cyclophora serrulata (see C. nanaria serrulata)

Cycloprate (see Cyclopropanecarboxylic acid, hexadecyl ester)

hexadecyl ester against
Panonychus citri 1704 P. ulmi, on apple 376 Tetranychus kanzawai 1704 T. urticae on Phaseolus 674 on rose 508 on strawberry 1440 in Tetranychus pacificus, mode of action of 1152 Cyclopropanecarboxylic acid, 3-

(cyclopentylidenemethyl)-2,2-dimethyl-, [5-(phenylmethyl)-3-furanyl]methyl ester (1R-trans)- (see Bioethanomethrin)

Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethylin bean, decamethrin metabolite 3544 3544 in cotton, decamethrin metabolite cyano[3-(4-hydroxyphenoxy)phenyl]methy ester, in cotton, decamethrin

metabolite 3544 cyano(3-phenoxyphenyl)methyl ester, (1R

in Bracon hebetor, toxicity of 3814 in Chelonus elaeaphilus, toxicity of 3814

cyano(3-phenoxyphenyl)methyl ester, [1R [1 α (S^*),3 α]]against pests of glasshouse crops 220

Liriomyza bryoniae, on tomato Trialeurodes vaporariorum, on tomato 221 Saissetia oleae, on olive 986 Heliothis zea, on Cicer arietinum

221

2302 Spodoptera exigua, on Cicer arietinum 2302

Formicidae, in food factories 3118 Nilaparvata lugens 3397 Conopia myopaeformis, on apple 3806

Spodoptera littoralis, on cotton 406 Heliothis virescens 4069 H. zea 4069 Limnoria spp. 4706 Spodoptera frugiperda, on maize 4906

Trichoplusia ni, on kale 4906 pests of Vigna unguiculata 5104 Trialeurodes vaporariorum, on ornamental plants 5733 Costelytra zealandica, in pastures

5874, 5875

Schistocerca gregaria, on wheat 5911 Acrididae 5980

Heliothis armigera, on tomato 6550 Agrotis segetum 6709 chemical properties of 4153 in bean, degradation of 3544 in *Campoletis sonorensis*, toxicity of 4069

in cotton

degradation of 3544 persistence of 4063 in guinea-pig, toxicity of 115' in insects, metabolism of 656 in Leptomastix dactylopii, toxicity of 2332

in man, toxicity of 1157 in Panonychus ulmi, toxicity of 5886 in plants, metabolism of in rat, effects of 1158

in rice-fields, causing outbreaks of Nilaparvata lugens 3389, 3402
in rice, stimulating reproduction by
Nilaparvata lugens 3928
in soil, metabolism of 656

in Tetranychus urticae, toxicity of

in vertebrates, metabolism of 656 insecticidal activity of 4153, 5958 physical properties of 4153 repellent for, *Tetranychus urticae*, on tomato 221

synergists for, formamidines as 4069 with oil emulsion, against, Saissetia oleae, on olive 986

roject index		94
yclopropanecarboxylic acid, 3-(2,2-	Cydia critica contd.	Cydia pomonella
dibromoethenyl)-2-(hydroxymethyl)-2- methyl-	on Cajanus cajan, effects of intercropping	biology of 381, 1973
in cotton, decamethrin metabolite 3544	on 2488 Cydia delineana	control of 1973, 6693 biological 626, 2956, 5069, 5895
cyano[3-(4-hydroxyphenoxy)phenyl]methyl	control of, insecticides for 3047	cultural 5609
ester, in cotton, decamethrin	in Romania 3047	growth regulators for 209, 1450, 348
metabolite 3544 cyano(3-phenoxyphenyl)methyl ester, in	on hemp, in Romania 3047 Cydia dimorpha	insecticide-pathogen mixtures for 34
cotton, decamethrin metabolite 3544	sp. nov., description of (in Grapholita)	insecticides for 209, 381, 963, 968, 1157, 1976, 2434, 2945, 2953, 295
yclopropanecarboxylic acid, 3-(2,2-	2947	3194, 3469, 3483, 3982, 5603, 588
dichloroethenyl)-2,2-dimethyl-	in Japan 2947	6695
in lettuce, cypermethrin metabolite 5985 cyano(3-phenoxyphenyl)methyl ester (see	on Chaenomeles speciosa, in Honshu 2947	integrated 2953, 3481, 3825, 5069
Cypermethrin)	on plum, in Honshu 2947	mating disruption for 392, 1744, 605 non-target effects of 3483
(3-phenoxyphenyl)methyl ester (see Permethrin)	Cydia funebrana attractants for 3235	sterile-insect release for 967, 4796,
(3-phenoxyphenyl)methyl ester, (1RS-	biology of 1983	5251, 5988
trans)- (see Transpermethrin)	control of, mating disruption for 1744	research on 2444 threshold for 2953, 2960
yclopropanecarboxylic acid, 3-[(dihydro-2-oxo-3(2H)-thienylidene)methyl]-2,2-	development in, effects of temperature on 1983	timing of 968, 2442, 2945, 3187, 348
dimethyl-	in Austria 1756	5607
1-methylheptyl ester, photoisomerisation	in Czechoslovakia 3235	traps for 390, 1450, 2956 courtship in, visual cues in 5602
of 2127 [5-(phenylmethyl)-3-furanyl]methyl ester,	in Poland 3982 in Spain 2967	DDT resistance in, in Kazakhstan 381
$[1R-[1\alpha,3\alpha(E)]]$ -	in Switzerland 1744, 1983	development in, effects of temperature of
photochemistry of 2127	on plum	. 3481
in mouse, toxicity of 2127 against, Musca domestica 2127	damage caused by 3982 forecasting infestations of 1983	diapause in effects of crowding on 383
yclopropanecarboxylic acid, 2,2-dimethyl-	sex pheromone of 5613	effects of photoperiod on 2962
3-(2-methyl-1-propenyl)- (see	taxonomy of	embryonic development in 6220
Chrysanthemic acid)	characters distinguishing <i>C. molesta</i> and 5613	effects of temperature on 3300
	characters distinguishing C. tenebrosana	fecundity in effects of γ-irradiation on 2231
2-methyl-4-oxo-3-(2-propenyl)-2-	and 5613	forecasting of 4553
cyclopenten-1-yl ester (see Allethrin) (3-phenoxyphenyl)methyl ester (see	traps for 2967 Cydia molesta	fungal toxins in, toxicity of 1637
Phenothrin)	attractants for 3235	fungi in, pathogenicity of 1637
[5-(phenylmethyl)-3-furanyl]methyl ester	biology of 394, 2967	granulosis virus in characterization of 6671
(see Resmethrin) [5-(phenylmethyl)-3-furanyl]methyl ester,	control of biological 3486, 5615	purification of 2110
(1R-trans)- (see Bioresmethrin)	growth regulators for 5615	UV tolerance in 1628
yclopropanecarboxylic acid, 2-[6-(3,3-dimethyloxiranyl)-4-methyl-3-hexenyl]-2-	insecticides for 394, 2966, 3486, 3998, 5615, 5617	in Australia 963 in Austria 1755, 1756
methyl-, methyl ester, against, Musca	mating disruption for 6461	in Bulgaria 1455, 1706, 2442, 2960, 29
domestica 4711	timing of 394, 5615, 5616	in Canada 390, 1977, 4553
yclopropanecarboxylic acid, 2-(8-ethoxy- 4,8-dimethyl-3-nonenyl)-2-methyl-	descriptions of 2967 emergence in, monitoring of 5073	in France 968, 6057 in India 5251, 6695
ethyl ester, against, Musca domestica	food-plants of 2967	in Italy 209, 1450, 6459
4711	in Australia 5616	in Morocco 3481
methyl ester, against, Musca domestica 4711	in Canada 3486 in Czechoslovakia 3235, 5613	in New Zealand 2956, 5889 in Poland 3982
1-methylethyl ester, against, Musca	in Italy 6459	in Romania 5603
domestica 4711 yclopropanecarboxylic acid, 2-(8-methoxy-	in Poland 394 in Romania 5615	in Switzerland 1744 in UK 4307, 5069
4.8-dimethyl-3-nonenyl)-2-methyl-,	in Spain 2967	in USA 383, 391, 392, 1976, 2435, 348
methyl ester, against, Musca domestica	in USA 5073, 6461	5609, 5895
4711 yclopropanecarboxylic acid, 3-(3-methoxy-	in USSR 2966 on apple, assessing infestations of 5073	in USSR 380, 381, 626, 1973, 2945, 2953, 3187, 3469, 6693
2-methyl-3-oxo-1-propenyl)-2,2-dimethyl-	on peach	life-span in, effects of transport on 223
(see Pyrethric acid)	forecasting infestations of 394, 5615,	life tables for 2956
yclopropanecarboxylic acid, 2,2,3,3- tetramethyl-, cyano(3-	5616 in Czechoslovakia 5613	mating in effects of γ-irradiation on 3287
phenoxyphenyl)methyl ester (see	in Georgia (USA) 6461	effects of rearing on 3287
Fenpropathrin)	in Georgia (USSR) 2966	monitoring of 964
yclops, Eupteryx yclosa insulana	in Ontario 3486 in Spain 2967	on apple damage caused by 1455, 3982
in India 2820	parasites of, effects of insecticides on	distribution pattern of 391
preying on, Aphis craccivora, in India 2820	3486 reproductive isolation of <i>C. prunivora</i> and	effects of plant spacing on 380 forecasting infestations of 2442, 318
yclotelus rufiventris	3262	in Austria 1755
in USA 1539, 6259	sex attraction in, periodicity of 3298	in British Columbia 390
preying on, Smicronyx fulvus, in North Dakota 1539, 6259	sex pheromone of 5613 components of 1221	in California 2435, 5895 in England 5069
4,8-Cycloundecatriene, 2,6,6,9-tetramethyl-	responses to 3262	in Kazakhstan 381
attractant for, Chrysopa carnea 5273	taxonomy of	in New Zealand 2956, 5889
in cotton 5273	characters distinguishing <i>C. dimorpha</i> and 2947	in Nova Scotia 1977 in Ohio 1976
taxonomy of	characters distinguishing C. funebrana	in Ontario 4553
Carpocapsa as synonym of 1174	and 5613	in Romania 5603 in RSFSR 3469
Laspeyresia as synonym of 1174 ydia aurana	characters distinguishing <i>C. tenebrosana</i> and 5613	in Ukraine 2953
attractants for 3235	traps for 394, 2967, 5073, 5613, 5615,	in USSR 2945
in Czechoslovakia 3235	5616 Cydia nigricana	in Washington 383, 392 varietal preferences of 968
ydia caryana emergence in 3993	attractants for 2652, 6736	on fruit trees, in Caucasus 1973
in USA 3993	control of 😊	on pear
on pecan, in Texas 3993 parasites of, in Texas 3993	insecticides for 4176 timing of 2652	effects of sprinkler irrigation on 560 in California 2435
preyed on by, Holepyris floridanus, in	in Poland 3519	in Oregon 3483
Americas 3847	in UK 4176, 6736	in Washington 392
ydia critica control of, cultural 2488	on pea damage caused by 3519	varietal preferences of 968 oviposition in, effects of photoperiod on
in India 2488	in England 4176	5369

Cypermethrin contd. Cydia pomonella contd. Cymbopogon proximus, Locusta migratoria parasitised by on, development of 2321 formulations of contd. microencapsulated 5875 Pristomerus vulnerator, in British Isles cymoides, Nysius in Chrysomelidae, toxicity of 6216 4211 Cynaeus angustus Trichogramma embryophagum, in Bulgaria 1706 in USA 6170 in Coccinella undecimpunctata, toxicity of in maize grain, in Minnesota 6170 2634 population dynamics of 380, 2956 preyed on by, birds, in New Zealand in Coccinellidae, toxicity of 2635, 6216 Cynara cardunculus Gymnoscelis rufifasciata on, damage in cotton 2956 caused by 4351 insect pests of, in Egypt 4350 Cynara scolymus (see Artichoke, globe) effects on fibre quality of 227 persistence of 4063 rearing of diets for 2775 techniques for 967 in guinea-pig, toxicity of in insects, metabolism of Cynipencyrtus flavus distribution of 5736 hosts of 5736 in Japan 5736 sex attraction in, environmental regulation of 1799 in lettuce, metabolism of in man, toxicity of 1157
in Neoseiulus fallacis, toxicity of 965
in Panonychus ulmi, toxicity of 5886 sterilisation of chemosterilants for 5988
y-irradiation for 967, 2231
survival in 5356
taxonomy of 1174
characters distinguishing Euzophera
bigella and 6459
traps for 968
placement of 2435 parasitising, *Dryocosmus kuriphilus*, in Japan 5736 in parasitic Hymenoptera, toxicity of 6216 Cynipidae, on street trees, in Ukraine 5183 Cynipoidea book 6265 in Poland 4858 in Periplaneta americana metabolism of 1691 penetration of 1691 in plants, metabolism of 656 in rice-fields, causing outbreaks of Cynips quercusfolii in Netherlands 4186 placement of 2435 voltinism in 383 Nilaparvata lugens 338 in soil, degradation of 656 on Quercus, galls of, Synergus spp. in 4186 3389, 3402, 6388 Cydia prunivora, reproductive isolation of C. molesta and 3262 in Spodoptera littoralis
effects on nervous system of 6715
metabolism of 1691
penetration of 1691 Cydia ptychora
control of, insecticides for 5104
in Nigeria 5104
on Vigna unguiculata, in Nigeria 5104 Acanthogryllus fortipes on, in Zimbabwe 6431 Hysteroneura setariae on, in Taiwan penetration of 1091
penetration of cuticle by 4380
in Tetranychus urticae, toxicity of 5886
in Tetrastichus julis, toxicity of 2635
in Typhlodromus occidentalis, toxicity of
965 3316 on Vigna unguiculata, in Nigeria 5104
Cydia pyrivora
in Austria 1755, 1756
in Italy 6459
on pear, in Austria 1755, 1756
Cydia saltitans, activity in, rhythm of 2739
Cydia splendana
in France 3144, 3461
in sweet chestnuts, in France 3144
on Castanea, in France 3461
Cydia tenebrosana
attractants for 3235
in Czechoslovakia 3235
taxonomy of Cynodon dactylon Asiphonella cynodonti on, in India 286 Dicladispa armigera on, in Punjab 2375 Diopsis macrophthalma on, in Nigeria 3973 in Typhlodromus pyri, toxicity of 965 in vertebrates, metabolism of 656 insecticidal activity of 4153, 5958 insecticidal activity of enantiomers of insect pests of, assessing infestations of 2412 Locusta migratoria on, in Mali 3328 Nymphula depunctalis on, in Kerala 914 Pseudonapomyza gujaratica on, in Gujarat photodegradation of 4395 physical properties of 4153 resistance to, in 6372 Sipha maydis on Sipha maydis on
in Himachal Pradesh 2765
in Jammu and Kashmir 2765
Spodoptera cilium on, in Spain 3444
S. frugiperda on, in Florida 1423
Surattha indentella on, in USA 1943
Cynodon magennisii, Scarabaeidae on, in
Florida 3445
cynodonti, Asiphonella
cynosbatella, Epiblema (Pardia)
cynosbatella, Pardia (see Epiblema
cynosbatella)
Cynthia cardui taxonomy of Spodoptera littoralis 4379 characters distinguishing C. funebrana Tetranychus cinnabarinus, development of 6717 and 5613 synergists for 4387 citrus oils as 3797 temperature as affecting 4395 characters distinguishing C. molesta and 5613 Cydnidae
in Galápagos Islands 6127
in Quebec 5408
Cydonia oblonga (see Quince)
Cydonia vulgaris (see Quince)
Cyhexatin (tricyclohexylhydroxystannane) with insecticides, interactions of 4389 with insecricides, interactions of 4389 with tris(methylphenyl) phosphate, antagonistic 4387

Cyperus, Oxya yezoensis on, ovarian development in 39

Cyperus difformis, Diopsis macrophthalma on, in Nigeria 3973

Cyperus esculentus

Sitobion hillerislambersi on, in Angola cyntosoatella)
Cynthia cardui
control of, insecticides for 6198
in Egypt 1013
in Quatar 6128 against Acarapis externus, on Apis mellifera 3840 Eriophyes guerreronis, on coconut 1436 in Qatar 6128
on soyabean, in Egypt 1013
cynthia, Philosamia (see Samia cynthia)
cynthia, Samia (Philosamia)
Cyolane (see Phosfolan)
Cyperaceae, Aphididae on, in India 286
Cypermethrin (cyano(3phenoxyphenyl)methyl 3-(2,2dichloroethenyl)-2,2dimethylogologogaearhoxylota) 2854 Panonychus ulmi
on apple 376
on grapevine 5589
Tetranychus urticae
on grapevine 5589
on strawberry 1440, 3987 Taphrocerus schaefferi on, in Virginia 4488 Cyperus immensus, Eldana saccharina on, oviposition by 1374

Cyperus iria, Nymphula depunctalis on, in

Kerala 914 Cyperus latifolius, Eldana saccharina on, oviposition by 1374
Cyperus papyrus, Eldana saccharina on, damage caused by 1374 antifeedant for Spodoptera littoralis 4371 on cotton 4386, 4390 dimethylcyclopropanecarboxylate) with acephate, against, Spodoptera littoralis, on cotton 4386, 4390 with phosfolan Anthonomus signatus, on strawberry Cyperus rotundus

Bactra furfurana on, rearing of 3871

B. lancealana on, rearing of 3871

Nymphula depunctalis on, in Kerala

Cyperus scariosus, insecticidal activity of extracts of 2132 364 364
Cnaphalocrocis medinalis, on rice
3926
Costelytra zealandica, in pastures
5874, 5875, 5876
Diabrotica longicornis 2635
Earias insulana, on cotton 227
Heliothis virescens 2310
Limnoria spp. 4706
Lygus lineolaris, on strawberry 364
Oulema melanopus 2635
Pectinophora gossypiella, on cotton
227 against, Spodoptera littoralis, on cotton 4386 antagonistic 4390 with profenofos against, Spodoptera littoralis, on cotton 4390 Cyphoderris
biology of 2658
distribution of 2658
keys to 2658 not compatible 4386 with tetrachlorvinphos, against, Spodoptera littoralis, on cotton 4386, 4390 Cyphon phragmiteticola in Netherlands 532 Cylas puncticollis in Cape Verde 137 in bark-beetle galleries, in Netherlands Sitophilus granarius 3797 Spodoptera frugiperda 5265 S. littoralis 2634, 4387, 4389 on cotton 4063 532 on sweet potato, resistance to 696 Cyphostethus tristriatus biology of 4095 descriptions of 4095 distribution of 4095 in Turkey 4095 Cylindrocopturus adspersus control of cultural 3543 insecticides for 3543 in USA 3543, 6260 on sunflower, damage caused by 3543, Tetranychus cinnabarinus 3817 T. urticae 965 Therioaphis trifolii, on lucerne 2296 on Cupressus sempervirens, in Turkey 4095 Trialeurodes vaporariorum, on ornamental plants 5733
Tribolium confusum 3797
chemical properties of 4153
formulations of 5874 on Pinus, in Turkey 4095 on Platanus orientalis, in Turkey 4095 taxonomy of 4095 6260 Cylindrothorax, in India 6122 Cymbopogon flexuosus, Tetraleurodes semilunaris on, damage caused by 1942 Cypress, pond (see Taxodium distichum)

iojeci index		949
pria, Elasmucha eckerleini	Cytochrome P-450 contd.	Dactylopius austrinus contd.
yprum	in Peridroma saucia, effects of food-plant	on Opuntia aurantiaca contd.
agricultural entomology in 1761	on activity of 4785	and biological control using, in South
Thysanoptera in, on Citrus 5078 yrtacanthacris	in Spodoptera eridania larval mid-gut microsomes 2719	Africa 4480
taxonomy of	Cytrolane (see Mephosfolan)	Dactynotus ambrosiae (see Uroleucon ambrosiae)
Austracris as synonym of 233	Czechoslovakia	Dactynotus carthami (see Uroleucon
Nomadacris as synonym of 233	Aphis fabae in, on Vicia faba 5669	carthami)
Patanga as synonym of 233	Arytaina genistae in, natural enemies of	Dactynotus compositae (see Uroleucon
Valanga as synonym of 233	4648	compositae)
yrtacanthacris guttulosa	Braconidae in 3311	Dactynotus rudbeckiae (see Uroleucon
control of	Carabidae in 4862	rudbeckiae) Dacus
economics of 822 insecticides for 822	Coccinellidae in, in grain fields 1918 Coleoptera in	in Australia 701
in Australia 822, 6273	in oak-hornbeam forests 5754	taxonomy of 701
on Casuarina lepidophloia, in New South	in woodland 5201	wings of, measuring of 805
Wales 822	Contarinia tritici in, on wheat 2871	Dacus armatus, descriptions of 701
on Eucalyptus microtheca, in New South	Cydia molesta in, on peach 5613	Dacus bivittatus biology of 422
Wales 822	Empoasca vitis in, on Paulownia 5200	in Nigeria 422
on grain crops, in New South Wales 822	Gastrophysa viridula in, on Rheum	Dacus ciliatus
on soyabean, in New South Wales 822	palmatum 5016	biology of 422
on sunflower, in New South Wales 822 outbreaks of 822	Geometridae in 143	in Cape Verde 137
vrtacanthacris septemfasciata	Haplodiplosis marginata in, on wheat 2871	in Nigeria 422
control of	Hylobius abietis in, on Pinus 4088	Dacus cucumis, control of, fumigants for 1121
insecticides for 5910	Ips typographus in, on Picea 4620	Dacus cucurbitae
use of aircraft in 5897	Lepidoptera in 3235	ascorbic acid in, dietary requirement for
population dynamics of, models of 114	Neodiprion sertifer in, on Pinus 3579	2207
vrtacanthacris succincta	Operophtera brumata in, on Quercus	control of 692
in Indonesia 3415	6628 Physotophoile confinis in	fumigants for 1615
on rice, in Indonesia 3415 vrtepistomus castaneus	Physatocheila confinis in on pear 4648	insecticides for 1500, 5663 sterile-insect release for, models of 633
biology of 6150	on Quercus 4648	dispersal of 5375
in USA 6150	Plesiodema pinetellum in, on Pinus 4648	in India 5663
on Quercus, in Missouri 6150	Psylla pyricola in, on pear 4649	in Japan 633, 1501, 5375
vrtorhinus	P. vasilievi in, on pear 4649	in Taiwan 934
in rice-fields, effects of insecticides on	P. visci in, on Loranthus 4649	insecticide resistance in, detecting and
4179 preying on, <i>Nilaparvata lugens</i> , in	Sitodiplosis mosellana in, on wheat 2871 Sitona humeralis in, on lucerne 3448	measuring of 3712 intrinsic rate of increase of 107
Solomon Islands 4179	Syrphidae in 142	marking of, radiophosphorus for 2272
vrtorhinus chinensis (see Tytthus	natural enemies of 3346	mating competitiveness in, effects of y-
chinensis)	Tachinidae in 157, 5470	irradiation on 2725
vrtorhinus lividipennis	Tetranychus urticae in, on hop 3357	on Cucumis utilissimus, in Rajasthan
distribution of 1885	Tortrix viridana in, on Quercus 6628	5663
diurnal activity in 3916 flight activity in 6406	Zeiraphera diniana in, on Picea 4108 2,4-D ((2,4-dichlorophenoxy)acetic acid)	on <i>Diplocyclos palmatus</i> , in Kyushu 1501
in Bangladesh 6424	in Carduus nutans, not affecting	on pumpkin, development of 5098
in India 886, 887, 1401, 1885	Rhinocyllus conicus 853	on watermelon, development of 5098
in Malaysia 3407, 3408, 3916, 6406,	in maize, favouring insect pests 5028	rearing of, techniques for 2282
6407, 6408	Dacamox (see Thiofanox)	seasonal abundance of 1501
in Solomon Islands 3698	daci, Trybliographa	smoke emission by 82
in Thailand 6411 in rice-fields	Dacnonypha, food preferences in, evolution of 5434	sterilisation of, γ-irradiation for 2725 traps for 1501
effects of insecticides on 3407, 6407,	Dacnusa, parasitising, Napomyza lateralis, in	Dacus demmerezi
6411, 6424	Bulgaria 5120	control of, biological 694
in West Malaysia 3916, 6406, 6408	Dacnusa dryas	in Réunion 694
Mermithidae in, in Karnataka 887	parasitising	Dacus dorsalis
Nephotettiz pigropictus in Karneteka	Agromyza frontella and biological control using	control of 692 fumigants for 1615, 3142
Nephotettix nigropictus, in Karnataka 886	in Delaware 4902	descriptions of 2502
Nilaparvata lugens	in USA 2928	food-plants of 2431, 2931
and biological control using, in Tamil	rearing of, techniques for 2928	in India 2431
Nadu 341, 342	Dacnusa nipponica	in Japan 2931
in India 1885	in Japan 427	in Malaysia 2502 in Taiwan 934
in Karnataka 886, 1401 in Solomon Islands 3698	parasitising, <i>Phytomyza horticola</i> , in Honshu 427	in raiwan 934 insecticide resistance in, detecting and
in West Malaysia 3408	Dacnusa sibirica	measuring of 3712
traps for 3916, 6406, 6408	biology of 201, 3807	intrinsic rate of increase of 107
ysteochila ablusa	in Netherlands 3807	on Capsicum, in Malaysia 2502
control of	parasitising	on Carica papaya, development of 2502 on cashew
insecticides for 1558 spray volumes for 1558	Liriomyza bryoniae 201 in Netherlands 3807	damage caused by 2431
in India 1558	Dacryopinax spathularia, in, rubber wood,	in Karnataka 2431
on Bauhinia, in Punjab 1558	responses of termites to 5226	on Citrus, in Taiwan 934
Cystine	Dactinomycin, in Galleria mellonella, not	on Eugenia javanica, in Taiwan 934
in Bombyx mori silk 744	preventing hemocyte destruction by	on guava, in Taiwan 934
in Spodoptera littoralis, effects of	Chilo iridescent virus 3163	oviposition in 2502
insecticides on 4362, 4363 Nilaparvata lugens feeding responses to	Dactylis, Spodoptera depravata on, development of 4521	rearing of, diets for 1851 seasonal abundance of 934
3413	Dactylis glomerata	traps for 934
therea, Imbrasia (Nudaurelia)	cereal aphids on, survival and	Dacus minax, descriptions of 701
therea, Nudaurelia (see Imbrasia	reproduction of 2358	Dacus neohumeralis, rectal pheromone
cytherea)	cocksfoot mottle virus in, in East	glands in, secretion of 3983
ythion (see Malathion)	Germany 5518	Dacus nubilus, in Taiwan 934 Dacus oleae
ytochrome b ₅ in <i>Diabrotica undecimpunctata</i> 6217	Costelytra zealandica on, damage caused by 5872	attractants for 1474, 1476
in Diabrotica virgifera 6217	Stenocranus minutus on, in England 842	biology of 1993, 5642
in Spodoptera eridania, properties of 725	dactylopii, Leptomastix	control of 1472, 1474
ytochrome P-450	Dactylopius austrinus	bait sprays for 1475, 1476, 1477, 2457
in Dendroctonus terebrans 724	illustrations of 3352	2458 historical 2457 5630 6400
in Diabrotica undecimpunctata 6217	life history of 3352	biological 2457, 5639, 6490
in Diabrotica virgifera 6217	n Opuntia aurantiaca 3352	growth regulators for 210

Dacus oleae contd.	Dalbergia sissoo contd.	Dasineura leguminicola contd.
control of contd.	insecticidal activity of extracts of roots of	on pasture plants, in UK 5575
insecticides for 1475, 1476, 1477,	3708	Dasineura lini
2457, 2458	Dalbergia (wood), Odontotermes obesus in,	control of, cultural 2550
non-target effects of 5640	development of 6660	in India 2550
sterile-insect release for 206, 987	Dalbulus elimatus, maize rayado fino virus	on flax, effects of sowing date on 2550
threshold for 6496	in, transmission of 5532	Dasineura mali
development in, effects of temperature on	Dalbulus maidis, maize rayado fino virus in,	biology of 5066
1991	transmission of 5532 dalmanni, Telenomus	control of 5066
dispersal of 987 in France 2457	Daminozide (butanedioic acid mono(2,2-	in UK 5066 on apple, damage caused by 5066
in Greece 210, 1991, 1992, 1993, 1994,	dimethylhydrazide))	Dasineura oleae
2458, 5639, 6490, 6492, 6496	in cotton, effects on Aphis gossypii of	biology of 5084
in Italy 1473, 1475, 1476, 1477	4074	in Syria 5084
in Libya 5642	Damson (Prunus insititia)	on olive, damage caused by 5084
in Turkey 1311	Aphididae on, in UK 5611	parasites of, in Syria 5084
in Yugoslavia 987 insecticide resistance in, detecting and	Bryobia cristata on, in UK 1451 plum pox virus in, in UK 5611	Dasineura pyri
measuring of 3712	Rhynchites pauxillus on, in USSR 5064	biology of 5066
larval migration in 1993	Danaus plexippus	control of 5066
mating in 2247	diuresis in, regulation of 3272	in UK 5066
on olive	egg production in, male nutrient	on pear, damage caused by 5066
assessing infestations of 1476	contribution to 5311	Dasineura tetensi
damage caused by, compensation for	glycogen in, reserves of 4266	biology of 3456 control of
6496 in Crata 1991	in Denmark 6124	cultural 3456
in Crete 1991 in France 2457	Danaus plexippus plexippus distribution of 2249	insecticides for 3456
in Greece 5639, 6490	migration in 2249	threshold for 3456
in Libya 5642	Dandelion (see Taraxacum officinale)	fungi in, in USSR 3456
in Sardinia 1473	dannehli, Laspeyresia (see Cydia pyrivora)	in USSR 3456
in Yugoslavia 987	danzigae, Apterencyrtus (see Zaomma	on black currant, damage caused by
overwintering in 1994	danzigae)	3456
oviposition-deterring pheromone not	danzigae, Zaomma (Apterencyrtus)	parasites of, in USSR 3456 predators of, in USSR 3456
found in 1474 parasites of	Daphene (see Dimethoate) Daphnia ambigua	Dasychira ella, taxonomy of, reduced to
effects of bait sprays on 204	in USA 5007	subspecies of D. grisefacta 5284
effects of insecticides on 205	in fish ponds, in Kansas 5007	Dasychira grisefacta ella, taxonomy of,
effects of olive development stage on	population dynamics of 5007	reduced from specific rank 5284
5639	production in 5007	Dasychira mendosa
in Sardinia 1473	Daphnis nerii, larvae of, melanisation in	in India 2419
parasitised by, Opius concolor, in Greece	2196	on Citrus, in Punjab 2419
1992 population density as affecting 5310	daplidice, Pontia darlingensis, Pterohelaeus	on guava, in Punjab 2419 on pear, in Punjab 2419
population dynamics of 1472, 1473	Darna catenata	Dasychira pudibunda
predators of, in Sardinia 1473	control of 936	in Poland 3342
pupae of, effects of temperature on	in Indonesia 936	parasitised by, Rhacodinella apicata, in
mortality of 6492	on coconut, in Indonesia 936	Poland 3342
pupal development in 1994	Dasanit (see Fensulfothion)	Dasyhelea, on cacao, in Colombia 4080
pupation depth in 2456	dasguptai, Sarcophaga (Thyrsocnema)	Dasyhelea grisea 4080
rearing of, techniques for 206 sex attraction in 1474	dasguptai, Thyrsocnema (see Sarcophaga dasguptai)	Dasyneura (see Dasineura) Data banks
sex pheromone of 985	dasi, Andaspis (see A. numerata)	grain crop losses in Europe 1913
traps for 1476	Dasineura balsamicola, on Abies balsamea	pesticides 2122
Dacus tau	1100	Datana integerrima
in India 378	Dasineura brassicae	biology of 6223
in Taiwan 934	biology of 5095	in USA 6223
on mulberry, in India 378	control of 1866	on pecan, damage caused by 1447
Dacus tryoni control of 692	preventing oviposition for 3515 timing of .5095	Date palm (Phoenix dactylifera) arthropod pests of, in Saudi Arabia 19
bait sprays for 3511	dispersal of 5095	Ectomyelois ceratoniae on 706
fumigants for 1121	in Poland 1866, 2996, 2997, 3702, 5095	insect pests of
genetic 4798	in UK 4573	effects of bunch covering on 2424
insecticides for 3511	in West Germany 3515	effects of clean cultivation on 2425
non-target effects of 3511	on rape	effects of plant height on 2423 in Egypt 2422
in Australia 692, 972, 2239, 3511, 4798 on avocado, damage caused by 972	damage caused by 1866, 3702, 4573 distribution pattern of 4573	varietal preferences of 2423
on passion fruit, in Queensland 3511	effects of plant growth regulators on	Oligonychus spp. on, in Egypt 363
overwintering in 2239	3515	Urophorus humeralis on, in Libya 358
rectal pheromone glands in, secretion of	in Poland 2996, 2997, 5095	Date palm (stored fruit)
3983	parasitised by, Hymenoptera, in Poland	mites in, extracting of 5220
Dagbertus fasciatus	2996, 2997	pest control in, insecticides for 3659
in USA 4558	preyed on by, <i>Pseudotorymus brassicae</i> , in Poland 2997	pirimiphos-methyl in, residues of 3659
on avocado, in Florida 4558 taxonomy of 4558	Dasineura fastidiosa	Datura fastuosa, Henosepilachna vigintioctopunctata on, development of
Dagbertus olivaceus	sp. nov., description of 5190	4044
eversible rectal organ in 4559	in Netherlands 5190	Datura stramonium
in Antigua 5121	on Betula, in Netherlands 5190	Agrotis ipsilon on 68
in USA 4558, 4559	preyed on by, Lestodiplosis spp., in	insecticidal activity of extracts of 859
on avocado, in Florida 4558, 4559	Netherlands 5190	Manduca sexta on, mortality of 3562
on cotton, in Antigua 5121 taxonomy of 4558	Dasineura gentneri in UK 5575	Datura stramonium pollen, Amblyseius aberrans in, development of 3345
Duhlia	on pasture plants, in UK 5575	Daucus carota (see Carrot)
DDT in, not toxic 5258	Dasineura gleditchiae	dauricus, Harminius (see Hemicrepidius
Microcephalothrips abdominalis on, in	in USA 5192	dauricus)
India 5468	on Gleditsia triacanthos, in Oregon 5192	dauricus, Hemicrepidius (Harminius)
Dairy factories, arthropods in, in New	Dasineura interbracta	DD 136 (see Negation company)
Zealand 6638 Daktulosphaira vitifoliae (see Viteus	sp. nov., description of 5190 in Netherlands 5190	DD-136 (see Neoaplectana carpocapsae) DDD (mixture of isomers in which p,p'-
vitifoliae)	on Betula, in Netherlands 5190	DDD (mixture of isomers in which p,p - DDD predominates)
Dalbergia latifolia (wood), Microcerotermes	preyed on by, Lestodiplosis spp., in	DDT photoproduct 5258
beesoni in, feeding by 2572	Netherlands 5190	in forest soils, residues of 3078
Dalbergia sissoo	Dasineura leguminicola	in Picea abies, residues of 3078
insecticidal activity of extracts of 2133	in UK 5575	in Pinus sylvestris, residues of 3078

p,p'-DDT (1,1'-(2,2,2-

bject Index '-DDD (1,1'-(2,2-dichloroethylidene)bis[4chlorobenzene]) DE (mixture of isomers in which p,p'-DDE predominates) DDT photoproduct 5258 in birds' eggs, relation of shell thickness and 3178 '-DDE (1,1'-(dichloroethenylidene)bis[4chlorobenzene])
DT (mixture of isomers in which p,p'-DDT predominates) against Agromyzidae, on Vigna radiata 445 Anthonomus signatus, on strawberry 364 Austroasca alfalfae, on lucerne 3447
A. viridigrisea, on lucerne 3447
Callosobruchus chinensis, in Cicer
arietinum seeds 5228 Carpomyia vesuviana 6477 Chilo partellus, on sorghum 1416 Coptotermes formosanus, in pine wood 5487 Corcyra cephalonica in sorghum grain 5809 in wheat grain 5809 Curculionidae 1441 Dacus tryoni, on passion fruit 3511 Dichocrocis punctiferalis, on castor 2506 Ephestia cautella Ephestia cautella
in sorghum grain 5809
in wheat grain 5809
Eublemma amabilis 1350
Euproctis chrysorrhoea, on Rubus 668
E. fraterna, on plum 2447
forest pests 3175
Heliothis armigera 1149
on Cicer arietinum 2021, 5679
Heterotermes indicola, in pine wood
5487 Lygus lineolaris, on strawberry 364
Maruca testulalis, on Vigna unguiculata 455 Megalurothrips sjostedti, on Vigna unguiculata 455 unguiculata 455
Nilaparvata lugens 6719
Ophiomyia phaseoli, on Vigna
unguiculata 5671
Orgyia pseudotsugata 2071
on forest trees 3102
on Pseudotsuga 2072
Ostrinia furnacalis, on maize 5533
pests of Citrus 5626
Pheidole megacephala 5264
Sitotroga cerealella
in sorghum grain 5809
in wheat grain 5809
Sogatella furcifera 6719
Spodoptera littoralis 486, 2634 Spodoptera littoralis 486, 2634 S. litura 3222 on cauliflower 2473 Tipula spp. 864
Tribolium castaneum 5258
environmental health criteria for in Acheta domesticus, effects on melanisation of 4705 in Carausius morosus, effects on neurosecretory system of 2633 in cattle, residues of 1707 in cattle milk, residues of 4951 in cauliflower, persistence of 2473 in Chrysopa boninensis, toxicity of 3041 in Coccinella undecimpunctata, toxicity of 2634 in forest soils, residues of 3078, 5769 in forest trees, residues of 5769 in forests effects on birds of 3179 non-target effects of 3102 in fowl, effects on toxicity of malathion of 1709 in Laodelphax striatella, effects of posttreatment temperature on susceptibility to 5259 to 5259
in man, residues of 5768
in meat, residues of 5981
in passion-fruit orchards, effects on predatory insects of 3511
in Periplaneta americana, effects on melanisation of 4705
in Picea abies, residues of 3078
in pine wood, persistence of 5487

DDT contd. in Pinus sylvestris, residues of 3078 in Plutella xylostella, effects of posttreatment temperature on susceptibility to 5259 in polluted air, effects on Araneus of 2831 in soil effects of 2141 effects on productivity of 5270 in soyabean hay, residues of 1519 in Spodoptera littoralis, effects on hemolymph amino acids of 3818 in Spodoptera litura, effects of posttreatment temperature on susceptibility to 5259 photodegradation of 3201 photosensitisers for, nicotine as 5258 resistance to, in Cydia pomonella, in Kazakhstan 381 Ephestia cautella, in New South Wales 1110 E. kuehniella, in New South Wales 1110 Eurygaster integriceps, in Iran 336 pests of stored products 5804 Plodia interpunctella, in New South Wales 1110 Sitophilus granarius 5814
Spodoptera littoralis, development of 4704 use of, value judgements in 5910 with Bacillus thuringiensis, against, Euproctis chrysorrhoea, on Rubus 66Ř with carbaryl against Attagenus unicolor, in tractor trailers 3126 Tribolium confusum, in tractor trailers 3126 Trogoderma inclusum, in tractor trailers 3126 with chlordane, against, Heliothis armigera 1149 with chlorpyrifos, against, Heliothis armigera 1149 with dicrotophos, against, Heliothis armigera 1149 with endrin, against, Heliothis armigera 1149 with EPN, against, Heliothis armigera 1149 with HCH against Antigastra catalaunalis, on sesame 1032 Heliothis armigera 1149 on Cicer arietinum 2021 Mythimna unipuncta, on rice with leptophos, against, Heliothis armigera 1149 with lindane against Eublemma amabilis 1350 Meligethes aeneus, on rape 3516 in rape fields, non-target effects of 3516 with mephosfolan, against, Heliothis armigera 1149 with methomyl, against, Heliothis armigera 1149 with parathion-methyl against Amsacta albistriga, on groundnut 6527 Leptinotarsa decemlineata, on potato 5700 agroavailability of 5700 with parathion-methyl, and toxaphene against, Earias insulana, on cotton 4384 in cotton fields, non-target effects of 4384 with phosfolan, against, Heliothis armigera 1149 with toxaphene, against, Spodoptera litura 1154

trichloroethylidene)bis[4-chlorobenzene]) in Coccinella septempunctata, toxicity of 1712 DDVP (see Dichlorvos)
Deadnettle, purple (see Lamium purpureum) Debaryomyces, in, cheese, preventing mite infestation 3116 2,8-Decadiene-4,6-diynoic acid
methyl ester, (2Z,8Z)in Heliothis virescens, toxicity of 5266
in Heliothis zea, toxicity of 5266 in Pectinophora gossypiella, toxicity of 5266 5266

2,4-Decadienoic acid, 3,7-dimethyl-10(tetrahydro-2-furanyl)1-methylethyl ester
in Prorhinotermes simplex, inducing
soldier caste formation 5001
in Reticulitermes santonensis, inducing
soldier caste formation 5001

2.0 Decadional of 3.0 dimethyl-6x(1-3,9-Decadien-1-ol, 3,9-dimethyl-6-(1-methylethenyl)-, propanoate, (Z)-, Pseudaulacaspis pentagona sex pheromone 4763 3,9-Decadien-1-ol, 3-methyl-6-(1-3,9-Decaden-1-ol, 3-methyl-o-(1-methylethenyl)acetate, (3Z,6R)Aonidiella aurantii responses to 6731
attractant for, Aonidiella aurantii 3504
residual activity of 3504
5,8-Decadien-1-ol, 3,9-dimethyl-o-(1methylethyl)-5,8-Decadien-1-01, 3,9-dimethyl-0-(1-methylethyl)acetate, (E)Aonidiella citrina sex pheromone 4002
laboratory synthesis of 4002
Decamethonium (N,N,N,N',N',N'hexamethyl-1,10-decanediaminum) in Drosophila melanogaster, toxicity of 6699 Decamethrin (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-[1α(S*),3α]]-)

Decamorium uelense, mandibular glands in, secretion of 4761

1,10-Decanediaminium, N,N,N,N,N,N',N'-hexamethyl- (see Decamethonium)

2,4,7-Decatrienal, in maize oil 2649 decedens. Asymmetrasca decedens, Asymmetrasca decemlineata, Leptinotarsa 2-Decenal, (E)-, in almond hulls 6453 5-Decen-1-ol (E)-, with (E)-5-decenyl acetate, attractant for, Anarsia lineatella 1986 acetate, (E)-, with (E)-5-decen-1-ol, attractant for, Anarsia lineatella 1986 acetate, (Z)with looplure, attractant for, Agrotis venerabilis 4716
with looplure, and (Z)-7-dodecen-1-ol, attractant for, Euxoa albipennis 9-Decen-1-ol, 3-methyl-6-(1-methylethenyl)-, acetate, (3S,6R)-, Aonidiella aurantii responses to 6731
9-Decen-1-ol, 3-methyl-6-(1-methylethylidene)-, acetate, Aonidiella aurantii not responding to 6731 aurantii not responding to 6731 decipiens, Empoasca decipiens, Forficula Decis (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-[1\alpha(S^*),3\alpha]]-) declarata, Euxoa decolorata, Podagrica decoloratus, Hemicrepidius (see H. hemipodus) decora, Calleida decorum, Bembidion decorus, Apanteles Dectes sayi
biology of 854
descriptions of 854
in USA 854
on Ambrosia artemisiifolia, in Ohio 854
Deet (N,N-diethyl-3-methylbenzamide)
in Megachile rotundata, toxicity of 2924
repellent for
Monodontomerus spp. 2924
Tetrastichus spp. 2924 Dectes sayi DDT analogues
biological degradation of 3225
in Locusta migratoria, electrophysiological
symptoms of 5344
physical-chemical degradation of 3225

DEF (see Phosphorotrithioic acid, S,S,S-	Delia antiqua contd.	Deloyala guttata contd.
tributyl ester)	on onion	mating in 69
Defensive secretions Ancistrotermes cavithorax 667	damage caused by 4014 in Finland 1490	Delphacidae in New Zealand 4210
Elasmucha grisea 2058	in France 214	in rice-fields, in Egypt 3394
Graeffea crouanii 3984	varietal preferences of 4047	on coconut, in Ivory Coast 6445
Isoptera 1734	population density as affecting 4284	on grasses, effects of plant structure complexity on 4528
Linaeidea aenea 4767 Monomorium minimum 2324	sex determination in 1028 sex ratio in, distortion of 4815	on oil palm, in Ivory Coast 6445
Plagiodera versicolora 4767	trace elements in, monitoring of 2226	on rice, in Egypt 889
defoliaria, Biston (see Erannis defoliaria) defoliaria, Erannis (Biston)	Delia brassicae control of	Delphacodes pellucida (see Javesella
dehneli, Conomelus	biological 5928	pellucida) Delphastus pusillus
Dehydrogenase, alcohol	insecticides for 216, 421, 1490, 1759,	in USA 975
in <i>Drosophila funebris</i> , effects of environmental alcohol on 6047	3809, 5097, 5656, 6712 repellents for 5656	in citrus groves, effects of pesticides on
in Drosophila melanogaster	timing of 3809	975 preying on, Aleurocanthus woglumi, in
effects of environmental alcohol on 6047	food-plant selection in 6151 in Belgium 216, 3809	Florida 975
substrate specificity of 6048	in Finland 1490	deltiger, Toxares
Dehydrogenase, glutamate	in Irish Republic 5928, 6506	Deltocephalus coronifer (see Recilia coronifera)
in Heliocopris dillonii muscles 1795 in Leptinotarsa decemlineata, role in	in Netherlands 5656 in Poland 2469, 4014	deltoides, Kilifia
amino acid metabolism during flight of	in UK 421, 1759, 2006, 5097	Deltomyza australiensis
730	in USA 6227 on brussels sprouts, in Belgium 216,	in Australia 5774 parasitising, <i>Pyrgoides orphana</i> , in
in Scirpophaga incertulas fat-body 2371 in Tessaratoma papillosa fat-body 2371	3809	Tasmania 5774
Dehydrogenase, glyceraldehyde phosphate,	on cabbage	Demeton-O-methyl (O-[2-(ethylthio)ethyl]
in Chilo suppressalis larvae, role in anaerobiosis of 6050	damage caused by 4014 effects of cover crops on 6506	O,O-dimethyl phosphorothicate) against
Dehydrogenase, glycerol phosphate, in Chilo	in Finland 1490	Amrasca devastans, on okra 4017
suppressalis larvae, role in anaerobiosis	in Irish Republic 5928	Earias spp., on okra 4017
of 6050 Dehydrogenase, L-iditol	resistance to 6227 on cauliflower	pests of sugar-beet 1523 Pyrilla perpusilla, on sugar-cane 5515
in Bombyx mori eggs	in Finland 1490	Demeton-S-methyl (S-[2-(ethylthio)ethyl]
properties of 2687 role in diapause termination of 2687	in Netherlands 5656 on radish	O,O-dimethyl phosphorothioate) against
Dehydrogenase, lactate	in England 421, 2006, 5097	Acrocercops cramerella, on Litchi
in Chilo suppressalis larvae, role in	in Finland 1490	chinensis 408
anaerobiosis of 6050 in Choristoneura fumiferana cell lines,	on rape, in Poland 2469 on swede, in England 1759	Acyrthosiphon kondoi, on lucerne 1954
effects of Bacillus thuringiensis on	oviposition in	Aphidoidea, on Capsicum 5708
6685 in <i>Heliocopris dillonii</i> muscles 1795	effects of cover crops on 6506	aphids on fruit trees 1450
in Locusta migratoria flight muscles,	effects of plant growth stage on 2006 parasitised by	on pome fruits 209
denervation increasing activity of 733	Aleochara bilineata 5928	Aphis gossypii, on cotton 5126
Dehydrogenase, malate (decarboxylating), in Heliocopris dillonii muscles 1795	Trybliographa rapae 5928 predation of, effects of cover crops on	Argyroploce leucaspis, on Litchi chinensis 6497
Dehydrogenase, proline, in Heliocopris	6506	Austroasca alfalfae, on lucerne 3447
dillonii muscles 1795	predators of, effects of cover crops on 5928	A. viridigrisea, on lucerne 3447
Dehydrogenase, sorbitol (see Dehydrogenase, L-iditol)	preyed on by, Carabidae, in Irish Republic	Brevicoryne brassicae, on brussels sprouts 1758
Dehydrogenase, xanthine	5928	Cerococcus spp., on coffee 4083
in Locusta migratoria activity pattern of 3259	Delia coarctata biology of 302	Dialeurodes citri, on Citrus 5625 Earias spp., on cotton 5126
characterization of 3258	control of	Heliothis armigera, on cotton 5126
regulation of 3259	cultural 302	Lipaphis erysimi, on rape 2468
Deilephila nerii (see Daphnis nerii) Deladenus siricidicola, against, Sirex	insecticides for 302, 5523 threshold for 6362	Nezara viridula, on soyabean 6520 Pectinophora gossypiella, on cotton
noctilio, on Pinus 5764	in East Germany 2866, 2879, 2885	5126
Delaware Agromyza frontella in	in Switzerland 5523 in UK 302, 2887, 6350	pests of potato 3019 pests of sugar-beet 1523
natural enemies of 2927	on grain crops	Pyrilla perpusilla, on sugar-cane 3879
on lucerne 2928, 4902	assessing infestations of 2866, 2885	Quadraspidiotus perniciosus, on
Dichomeris ligulella in, on Quercus 1081 Hypera postica in, natural enemies of	damage caused by 6350 on wheat	mulberry 378 Therioaphis trifolii, on lucerne 1954
4538	damage caused by 302, 6362	Trialeurodes vaporariorum, on
Vespula maculifrons in 4915 deleoni, Amblyseius	in East Germany 2879 population dynamics of 2879	ornamental plants 5734 in Acyrthosiphon pisum, effects of plant
delhiensis, Lysiphlebus	Delia flavibasis	components on susceptibility to 3796
Delia antiqua	in Libya 2368	in Coccinella repanda, toxicity of 6725
attractants for 687 chromosomes in 1028, 4815	on maize, in Libya 2368 Delia floralis	in fruit trees, translocation of 3194 in hop, translocation of 3194
control of 5699	control of, insecticides for 1490	in Myzus persicae, effects of plant
genetic 1027, 4699, 6146 insecticides for 214, 1490, 4014	in Finland 1490 on cabbage, in Finland 1490	components on susceptibility to 3796 in <i>Phytoseiulus persimilis</i> , toxicity of
development in, effects of temperature on	on cauliflower, in Finland 1490	3812
development time in, sex differences in	on radish, in Finland 1490	in Rhopalosiphum maidis, not affecting
4217	Delia platura control of, insecticides for 6230	hemocytes 2696 resistance to, in
diapause in, interfering with genetic	in USA 1488, 6230	Aculus cornutus, in New Zealand
control 4699 dispersal of 4284	on cucurbits, in California 1488 on <i>Phaseolus vulgaris</i> , in Wisconsin 6230	3997 Myzus persicae
Entomophthora muscae in, effects of	delicatulus, Myllocerus	in New South Wales 1695, 1700
fungicides on 6136	delineana, Cydia (Grapholita)	in West Germany 6534
in Finland 1490 in France 214	delineana, Grapholita (see Cydia delineana) Delonix regia	Phorodon humuli, in Switzerland 501 Therioaphis trifolii, in New South
in Poland 4014	Diachus auratus on, in Tahiti 1833	Wales 4541
in UK 5699 in USA 4047	pests of, in Réunion 694 delottoi, Pulvinaria	demetrius, Papilio protenor demmerezi, Dacus
on Allium, resistance to 469	Deloyala guttata	demoleus, Papilio
on Allium fistulosum, resistance to 4047	colour change in 69	Dendrobacillin (see Bacillus thuringiensis
on leek, damage caused by 5699	development in 69	var. dendrolimus)

endrocerus aphidum hyperparasitising, grain aphids, in	Dendroctonus frontalis contd. on Pinus	Dendroctonus ponderosae contd.
England 1388	assessing infestations of 3607	in USA 4617 on <i>Pinus contorta</i> , in British Columbia
in UK 1388	damage caused by 5740	5202, 6590
parasitising, Aphidius spp., in England 1388	forecasting infestations of 4631 site characteristics associated with	traps for 6590
endrocerus bicolor	5740	Dendroctonus pseudotsugae bibliography 525
hyperparasitising, grain aphids, in	stand characteristics associated with	control of
England 1388	5740	aggregation disruption for 2596
in UK 1388 parasitising, Aphidius spp., in England	on Pinus echinata assessing infestations of 5749	repellents for 6597 enzymes in 560
1388	damage caused by 2786, 4091	in Canada 6597
endrocerus breadalbimensis	distribution pattern of 524, 5749	in USA 560, 2596, 3606
hyperparasitising, grain aphids, in England 1388	in Mississippi 528 in North Carolina 535	on Pseudotsuga menziesii in British Columbia 6597
in UK 1388	in Texas 2561, 3589	in Oregon 2596
parasitising, Aphidius spp., in England	resistance to 1098	pheromones of, multifunctionality of
1388 endrocerus carpenteri	on <i>Pinus elliottii</i> , effects of oleoresin on 1098	5992 populations of, genetic differences among
autoparasitism in, avoidance of 2824	on Pinus palustris, effects of oleoresin on	560
hyperparasitising	1098	volatile compounds in 3606
Acyrthosiphon pisum 2824 grain aphids, in England 1388	on Pinus taeda assessing infestations of 1581, 5749	Dendroctonus rufipennis control of
in UK 1388	damage caused by 2786, 4091	aggregation disruption for 5738
parasitising	distribution pattern of 524, 5749	growth regulators for 5212
Aphidius spp., in England 1388	in Georgia (USA) 5151	diflubenzuron in, inhibiting brood
A. smithi 2824 endrocerus laticeps	in Louisiana 1566 in Mississippi 528	production 5212 in USA (Alaska) 5738
hyperparasitising, grain aphids, in	in North Carolina 535	on Picea glauca, in Alaska 5738
England 1388	in Texas 539, 542, 2561, 2565, 3589,	population quality in 2059
in UK 1388 parasitising, Aphidius spp., in England	3590, 5751 resistance to 1098	precocenes in, inhibiting degeneration of flight muscles 6603
1388	overwintering in 535	preyed on by, birds 2562
ndroctoni, Cecidostiba (see Dinotiscus	oviposition in 528	reproduction in, effects of temperature on
dendroctoni) ndroctoni, Dinotiscus (Cecidostiba)	parasites of alternative hosts of 5151	2059
endroctonus	in Georgia (USA) 5151	yolk deposition in, effects of food-plant on 5153
acoustic communication in 548	parasitism of, role in mortality of 2786	Dendroctonus terebrans
control of 5181	pathogens of, estimating incidence of	cytochromes in 724
on conifers, in El Salvador 5172 on <i>Pinus</i>	2578 pheromones in, studying of 4628	immune sera to 3864 in USA 5744
in El Salvador 5167, 5174	population dynamics of 528, 542	on Pinus elliottii
in USA 5181	populations of, genetic differences among	effects of herbicides on 5744
parasites of, in Mexico 1649 predators of, in Mexico 1649	558 predation of, role in mortality of 2786	tunnelling by 1087 α -pinene in, metabolism of 724
stridulatory apparatus in 549	predators of	dendrolimi, Trichogramma
endroctonus brevicomis	not affected by aggregation disrupters	Dendrolimus sibiricus
aggregation in, inhibited by Ips	539, 3590	granulosis virus in, effects on hemolymph bactericidal activity of 1642
paraconfusus infested logs 5327 attractants for 2580	parasites of 520 preyed on by	hemolymph in, bactericidal activity of
enzymes in, population isoenzyme	birds 2562	1642
variations in 5191	Dryocopus pileatus, in Texas 2561	in USSR 1123, 5791
in USA 2580, 3064, 5191 on <i>Pinus ponderosa</i> , in California 2580	Picoides pubescens, in Texas 2561 P. villosus, in Texas 2561	on forest trees, forecasting infestations of 5791
pheromones in, rate of release of 3064	Thanasimus dubius 6595	Paecilomyces farinosus in, in USSR 1123
preyed on by, birds 2562	in Texas 524, 3589	Dendrolimus spectabilis
traps for 2580 endroctonus frontalis	woodpecker 2559 rearing of, diets for 2283	control of, biological 5145 cytoplasmic polyhedrosis virus in
aggregation in 783, 3589	traps for 2578	characterization of 5145
biology of 2565	Unikaryon minutum in, in Florida 2578	in Shandong Province 5145
competing with, Monochamus titillator	Dendroctonus jeffreyi aggregation pheromone in, components of	in China 5145 nutrition of 1603
2559 Contortylenchus brevicomi in, in Florida	522	on Pinus, in Shangdong Province 5145
2578	chemical communication in 522	on Pinus thunbergii, feeding by 1603
control of	in USA 522 Dendroctonus micans	sex pheromone of, identity of 5158 Dendrolimus superans
aggregation disruption for 539, 3590 decisions in 5787	Bacillus thuringiensis in, in Georgia	control of, biological 5765
growth regulators for 6729	(USSR) 2616	in USSR 5765
development in, effects of food-plant	biology of 1599, 1604	Dendrosoter hartigii biology of 5397
condition on 5751 diel activity in 524	control of biological 2616	in USSR 5397
dispersal of 535, 3589	cultural 1604	parasitising, Scolytidae, in Lithuania
emergence in 542	insecticides for 1604	5397
enzymes in, population isoenzyme variations in 5191	descriptions of 1604 dispersal of 3578	Dendrosoter protuberans in Yugoslavia 3568
fecundity in 1561	distribution of 1604	parasitising, Scolytus spp., in Yugoslavia
hydrologic impact of 579	in France 3578	3568
immune sera to 3864 in Mexico 558	in Turkey 1604 in USSR 1599, 2616, 5767	Dendrosoter sulcatus host preferences in 5151
in USA 524, 528, 535, 539, 542, 558,	on Picea orientalis, in Turkey 1604	in USA 5151
783, 1210, 1566, 1581, 2561, 2565,	on Pinus, in USSR 5767	parasitising
2578, 2786, 3589, 3590, 3607, 4091, 4631, 5151, 5191, 5740, 5749, 5751	on Pinus sylvestris, in Siberia 1599 outbreaks of 3578	Dendroctonus frontalis, in Georgia (USA) 5151
larvae of, differentiating instars on	preyed on by, Raphidia ophiopsis, in	Ips grandicollis, in Georgia (USA)
radiographs of pine bark 2577	USSR 5767	5151
larval development in 1210	Dendroctonus ponderosae attractants for 5202, 6590	Dendrothripoides innoxius, in China 4867 Dendrothripoides ipomeae (see D. innoxius)
life tables for 2786 methoprene in, effects of 6729	chemical communication in 522	Denmark (see D. miloxius)
mites on	control of, repellents for 5202	Adelphocoris spp. in, natural enemies of
in Louisiana 1566	enzymes in, geographical differences in	5578 agricultural entomology in 5282
sampling of 1566 mortality in, effects of food-plant	4617 genetic variation in 4617	Agrotis segetum in, on root crops 6531
condition on 5751	in Canada 5202, 6590	Aphodius rufipes in, in cattle dung 1944

Denmark contd.	Dermatophagoides farinae	Desmodium uncinatum, Amnemus
applied entomology in 2158	lipids in 3755	superciliaris on, in Queensland 2921
arthropod pests in 6270 Attagenus woodroffei in, in dwellings	supracoxal glands in, evaluating salt concentrations in 3281	Despirol (see Kelevan) destructor, Aspidiotus (Temnaspidiotus)
2600	Dermestes 1251	destructor, Ctenicera
Betula spp. in, insect pests of 5150	in cheese 3116	destructor, Gascardia
Carabidae in 1842	rearing of, diets for 178	destructor, Glycyphagus (see Lepidoglyphu
Danaus plexippus in 6124	Dermestes ater	destructor)
Ephydridae in, on glasshouse crops 782	control of, insecticides for 3679	destructor, Lepidoglyphus (Glycyphagus)
Epinotia tedella in, natural enemies of 3597, 5148	development in, in vegetable foodstuffs 3616	destructor, Mayetiola destructor, Temnaspidiotus (see Aspidiotus
Formicidae in 2801	in USA 3679	destructor)
Psylla pyricola in 6470	in stored groundnuts, in Kansas 3679	destructor, Tribolium
Sciaridae in, on glasshouse crops 782	Dermestes frischii, development in, in	Detergents, against, pests of ornamental
Scolytus spp. in, on Ulmus 6600 S. laevis in, on Ulmus 566	vegetable foodstuffs 3616	plants 1063 Detia Gas Ex-B (see Phosphine)
Tortricoidea in 3306	Dermestes haemorrhoidalis	devastans, Amrasca (Empoasca)
Densovirus, in, Sibine fusca, pathogenicity of	development in effects of humidity on 785	devastans, Empoasca (see Amrasca
2938 doutata Phaidala	effects of temperature on 785	devastans) devastator, Crymodes (see Apamea
dentata, Pheidole dentatus, Phloeosinus	in vegetable foodstuffs 3616	devastatrix)
denticornis, Limothrips	fecundity in	devastatrix, Apamea (Crymodes)
denticulata, Hypogastrura	effects of humidity on 785	devecta, Dysaphis
denticulatus, Čeutorhynchus dentipes, Hydrotaea	effects of temperature on 785 Dermestes lardarius	Developing countries pesticide use in 1679
dentipes, Riptortus	development in, in vegetable foodstuffs	stored grain in, pest control in 4664
Deois flavopicta (see Tomaspis flavopicta)	3616	Dexetimide ((S)-3-phenyl-1'-(phenylmethyl)
deorum, Ageneotettix	embryonic development in	[3,4'-bipiperidine]-2,6-dione)
Deoxyribonucleic acids in Adoxophyes orana 1788	effects of humidity on 5309	in <i>Drosophila melanogaster</i> , toxicity of 6699
in Adoxophyes orana nuclear polyhedrosis	effects of temperature on 5309 in Canada 596	Dexia rustica
virus 4683	in UK 1614	in East Germany 5452
in Apanteles melanoscelus baculovirus	in poultry houses, in UK 1614	parasitising, Melolontha spp., in East
in Autographa californias NPV 1124	in structural wood in Manitoba 596	Germany 5452 Dexiothrips madrasensis
in Autographa californica NPV 1124 in Bacillus popilliae, extrachromosomal	in UK 1614	in India 5468
611	preyed on by, Phidippus audax 247	preyed on by, Anthocoridae, in India
in Bacillus thuringiensis,	Dermestes maculatus	5468
extrachromosomal 611 in Bombyx mori densonucleosis virus,	development in, in vegetable foodstuffs 3616	Diabrotica Beauveria spp. in, in Mexico 1651
effects of temperature on synthesis of	in UK 1614	control of, insecticides for 6253
3688	in poultry houses, in UK 1614	insecticide resistance in, in South Dakota
in Bombyx mori Ina-flacherie virus 6674	in structural wood, in UK 1614	6253
in Bombyx mori mid-gut, effects of moulting hormone on synthesis of	sex pheromone of 4112 Dermestes peruvianus	on cassava, in Colombia 1025 on Cicer arietinum, in Mexico 1671
1207	cannibalism in 785	on maize
in cell lines, Chilo iridescent virus	development in	in Mexico 1651
inhibiting synthesis of 6683 in eggplant, effects of <i>Urentius sentis</i> on	effects of humidity on 785 effects of temperature on 785	resistance to 6254 Diabrotica adelpha
1537	in vegetable foodstuffs 3616	cowpea mosaic virus in, transmission of
in Leptinotarsa decemlineata fat-body,	fecundity in	1011
effects of physiological state on 58 in Lymantria dispar nuclear polyhedrosis	effects of humidity on 785 effects of temperature on 785	in Costa Rica 1011, 6371 on sweet potato, effects of monoculture o
virus 5233	Dermestidae	6371
in Mamestra brassicae 1788	control of, insecticides for 2085	on Vigna unguiculata, in Costa Rica
in Mamestra brassicae nuclear polyhedrosis virus 4683	in sheepskin, in Queensland 2085 pest status of, changes in 3334	1011 Diabrotica balteata
in mouse cell lines, insect growth	Deroceras reticulatum, on pasture plants, in	bean yellow stipple virus in, transmission
regulators inhibiting synthesis of	UK 5575	of 4034
4168	Derodontidae	in Costa Rica 6371
in Orgyia pseudotsugata nuclear polyhedrosis virus 4685	biology of 4200 taxonomy of 4200	in Mexico 2301 in USA 1488
in Samia cynthia eggs, developmental	derogata, Sylepta	muskmelon necrotic spot virus in,
changes in 4788	desantisi, Signiphora flavopalliata	transmission of 4027
in small isometric viruses of invertebrates 3160	Descampsina sesamiae	on cucurbits, in California 1488
deprayata, Spodoptera	in Ghana 4497 parasitising	on Phaseolus damage caused by 2300
depressus, Melanotus	Eldana saccharina	resistance to 2301
depressus, Proeces	and biological control using, in South	on sweet potato, effects of monoculture o
depressus, Rhizophagus depressus, Trichopsenius	Africa 1376 in Ghana 4497	6371 Diabrotica cristata, diapause in 6248
depunctalis, Nymphula	Sesamia spp., in Ghana 4497	Diabrotica lemniscata, diapause in 6248
Deraeocoris, preying on, Psylla pyri, in	Desera geniculata	Diabrotica longicornis
France 5607 Deraeocoris brevis	in Philippines 904 preying on, Cnaphalocrocis medinalis, in	control of, insecticides for 312, 2635
in USA 5609	Philippines 904	cross-mating of, with, Diabrotica virgifera
in pear orchards, in Oregon 5609	desertorum, Phytocerus	diapause in 6248
Deraeocoris signatus	desertorum, Pogonomyrmex	in Canada 2635
in Australia 2546 in cotton-field borders, in Queensland	desertorum, Tetranychus Deserts, Lepidoptera in, in Soviet Central	in USA 312, 1395, 3889, 3892, 5540, 6250, 6255
2546	Asia 1304	insecticides in, detoxification of 4158
Deratopeus, taxonomy of, synonym of	Desiantha maculata	on maize
Tetartopeus 6022 Derbidae, in New Zealand 4210	in Australia 1441 on crop plants, in Tasmania 1441	assessing infestations of 1395, 3889, 6250
Dermaptera Zealand 4210	Desmodium	distribution pattern of 6255
in Africa, book 3243	Cerotoma trifurcata on development of	effects of sowing date on 5540
in Fennoscandia 139	6190	forecasting infestations of 3892
in Madhya Pradesh 797 in Malta 5413	Colaspis louisianae on, in Louisiana 4310 Meibomeus musculus on 1584	on Ohio 312 oviposition in 6250
in Soviet Central Asia 2755	Desmodium intortum	oviposition in 6256 oviposition sites of 3892, 6166
on Larix decidua, in Poland 2593	Amnemus superciliaris on, in Queensland	taxonomy of, characters distinguishing D.
Dermatitis, in man, caused by Pyemotes	2921 Leptoniinae on in Ousensland 2482	virgifera and 5539

,000 Midon		733
brotica speciosa, control of, biological	Diadegma cerophaga	Dialifos contd.
5107 brotica undecimpunctata	in Australia 5658 parasitising, <i>Plutella xylostella</i> , in Victoria	against contd.
USA 1488	5658	stem weevils 1867 in Apis mellifera, toxicity of 1867
n cucurbits, in California 1488	Diadegma eucerophaga	Dianthus caryophyllus (see Carnation)
brotica undecimpunctata howardi	in Poland 2075	Diaparsis, parasitising, Ceutorhynchus
owpea chlorotic mottle virus in,	in pine forests, effects of shrub vegetation	asperulus, in Karnataka 5675
transmission of 2007 ytochromes in 6217	on 2075 Diadegma fenestralis	diaperinus, Alphitobius Diaphania indica
nzymes in 6217	development in, effects of temperature on	biology of 2477
ŮSA 1488	837	food-plants of 2477
secticides in, detoxification of 4158	in Iraq 3451	in Yemen 2477
n cucurbits, in California 1488 earing of, techniques for 6235	in lucerne fields, in Iraq 3451 parasitising	on Lagenaria siceraria, development of
brotica undecimpunctata	Artogeia rapae 2335	on Luffa acutangula, development of
undecimpunctata, muskmelon necrotic	Heliothis armigera 837	1499
spot virus in, transmission of 4027	Hypera postica, in Iraq 3451 Mamestra brassicae 2335	on Momordica charantia, not developing
brotica virgifera	Pieris brassicae 2335	1499
stractants for 6247 arbaryl in, sublethal effects of 5978	Plutella xylostella 2335	on pumpkin, development of 1499 on <i>Trichosanthes anguina</i> , development of
arbofuran in, sublethal effects of 5978	Diadegma insularis in USA 1000	1499
ontrol of, insecticides for 312	parasitising, Plutella xylostella, in Florida	Diaphnocoris pellucida, taxonomy of,
coss-mating of, with, Diabrotica	1000	misidentified as Orthotylus translucens
longicornis 1922	Diadegma laricinella, rearing of 530	27
ytochromes in 6217 iapause in 6248	Diadegma rapi in Australia 5658	Diaphnocoris provancheri, taxonomy of, Orthotylus translucens as synonym of
istribution of 5539	parasitising, Plutella xylostella, in Victoria	27
nbryonic development in 6249	5658	Diaphnocoris ulmi, taxonomy of,
1zymes in 6217	Diadromus collaris (see also Thyraeella collaris)	misidentified as Orthotylus translucens 27
USA 312, 1395, 3892, 5540, 6247, 6248	in Australia 5658	Diaphorina citri
secticides in, detoxification of 4158	nutritional balance in 6049	citrus greening disease, causal agent in,
ating in 93	parasitising 6040	transmission of 1467
n maize assessing infestations of 1395, 6247	Acrolepiopsis assectella 6049 Plutella xylostella, in Victoria 5658	control of, biological 694, 1467, 5077 EPPO data sheet on 3189
effects of sowing date on 5540	Diadromus pulchellus	in Réunion 694, 1467, 5077
forecasting infestations of 3892	nutritional balance in 6049	on Citrus, in Réunion 5077
on Ohio 312 viposition in 778	parasitising, Acrolepiopsis assectella 6049	Diaprepes abbreviatus
viposition sites of 3892, 6166	Diaeretiella, taxonomy of, characters	compound eyes in, spectral sensitivity of 2701
reyed on by	distinguishing Adialytus and 2765	control of, biological 6484
Myrmica americana 877	Diaeretiella rapae	food-plants of 4556
Pheidole bicarinata 877 ex-pheromone glands in 6246	courtship in 3769 in UK 115	illustrations of 2971 in USA 2701, 2971, 6484
exonomy of, characters distinguishing D.	parasitised by, Alloxysta brassicae 115,	on Citrus
longicornis and 5539	6312	assessing infestations of 2701
brotica virgifera × D. longicornis 1922 brotica virgifera zeae	parasitising, Brevicoryne brassicae 115, 6312	development of 4556 in Florida 2971, 6484
sp. nov., description of 5539	searching efficiency of 115	on ornamental plants, development of
USA 5539	sex pheromone of 3769	4556
n maize, in Texas 5539	Diagnosis, of American foulbrood of	on persimmon, development of 4556
chasma, in Hungary 3311 chrysia orichalcea	honeybees 1624 diagoras, Perkinsiella	on sugar-cane, development of 4556 parasitised by, <i>Trichogramma</i> spp. 6484
Kenya 1541	Dialeurodes citri	traps for 2701
n sunflower, in Kenya 1541	biology of 2968	Diapromorpha quadripunctata (see
easonal abundance of 1541 chus auratus	control of biological 626, 979, 3490, 3491, 5632	Gynandrophtalma quadripunctata) Diaspididae, taxonomy of 2670
Society Islands 1833	insecticides for 2968, 5625	Diaspidiotus perniciosus (see
n Delonix regia, in Tahiti 1833	food-plants of 4565	Quadraspidiotus perniciosus)
crisia obliqua	in Afghanistan 2968	Diaspidiotus uvae
mino acids in, and in food-plants 4029 ontrol of 2846	in Greece 5632 in India 5625	in Brazil 1754 on grapevine, damage caused by 1754
insecticides for 2496, 3708, 5684, 5686	in Italy 3490, 3491	diaspidis, Aphytis
mergence in 2737	in USA 979, 4565	Diaspis echinocacti
ood-plant preferences in 5015 ood-plants of 1820	in USSR 626 on Ardisia solanacea, not developing	in South Africa 4988 on <i>Opuntia</i> , in South Africa 4988
India 1640, 2035, 2509, 2846, 5684	4565	parasitised by, Zaomma cestus, in South
rvae of, effects of y-irradiation on 4075	on Citrus	Africa 4988
nating in 2737	in Afghanistan 2968 in Florida 979	Diatomaceous earth (see Kieselguhr) Diatoms, on Schistocerca gregaria, effects of
n Boehmeria nivea, resistance to 1051 n medicinal plants, feeding by 5015	in Italy 3490, 3491	2318
n soyabean, feeding by 2208	in Maharashtra 5625	Diatraea
n sugar-beet, in Uttar Pradesh 5684	on Citrus jambhiri, development of 4565	control of
n sunflower, in Delhi 2035, 2509 n Vigna mungo, feeding by 2208	on lemon, in Florida 4565 on <i>Ligustrum lucidum</i> , in Florida 979	biological 1916 insecticides for 2304
n Vigna umbellata, feeding by 2208	on orange, in Greece 5632	on maize, varietal preferences of 2304
utbreaks of 2035	on persimmon, in Italy 3491	on sugar-cane, in Brazil 1916
arasitised by, Chelonus blackburni 2815 olyhedrosis virus in, in Bihar 1640	on Viburnum odoratissimum, in Florida 979	Diatraea crambidoides, fat-body in, proteins in 6088
degma	parasites of, effects of insecticides on	Diatraea dyari
arasitising	3491	in Bolivia 1383
Dichocrocis punctiferalis, in Gujarat	Dialeurodes citrifolii	on sugar-cane, effects of fertilizers on 1383
2822 Plutella xylostella, in New South Wales	in USA 4280 thermal tolerance in 4280	Diatraea grandiosella
1497	Dialifor (see Dialifos)	development in
degma armillata	Dialifos (S-[2-chloro-1-(1,3-dihydro-1,3-	effects of temperature on 305 6159
Finland 257, 3569 arasites of, in Finland 3569	dioxo-2 <i>H</i> -isoindol-2-yl)ethyl] <i>O,O</i> -diethyl phosphorodithioate)	effects of temperature on 305, 6159 diapause in 6088
arasitised by, <i>Pteromalus bottnicus</i> , in	against	role of JH-dependent proteins in 755
Finland 257	Monellia caryella, on pecan 2943	role of JH in 2216
arasitising, Yponomeuta evonymellus, in Finland 257, 3569	M. nigropunctata, on pecan 2943 pests of rape 5653	fat-body in proteins in 5347, 6088

synergists for 226

with malathion, against, Leucinodes

Diazinon contd.

Diatraea grandiosella contd.
fat-body in <i>contd</i> . synthesis of diapause-related proteins in 6089
flight activity in 6160 in USA 305, 3774, 6160 mating in 3774
on maize assessing infestations of 6160
development of effects of plant part on 6161 model 6159
in Kansas 305 resistance to, screening for 3891 oviposition in 3774
rearing of, equipment for 2290 traps for, correcting of catches in 3774
Diatraea lineolata in Mexico 1647
seasonal abundance of 1647 Diatraea rufescens
in Bolivia 1383 on sugar-cane, effects of fertilizers on 1383
Diatraea saccharalis control of, biological 289, 293, 861, 1914, 5517
diapause in 288, 6426
hyperparasitised by, Charletonia rocciai, in Brazil 861 in Bolivia 1383
in Brazil 289, 861, 5037, 5516, 5570, 6426
in Colombia 3940, 5517 in Cuba 3852
in USA 288, 1914, 3358 on maize, in Texas 1914, 3358 on rice
effects of fertilizers on 5037 in Colombia 3940
on sorghum effects of sowing date on 6426
in Texas 1914, 3358 resistance to 5570 on Sorghum halepense, in Texas 1914,
3358 on sugar-cane
effects of fertilizers on 1383 in Brazil 5516 in Colombia 5517
in Colombia 5517 in Texas 288, 1914, 3358 resistance to 289
parasites of 6523 intraspecific competition in 2356
parasitised by Agathis stigmatera, in Colombia 3940
Lixophaga diatraeae 293, 1316, 2356, 6165
Metagonistylum minense 2356 in Brazil 289
Paratheresia claripalpis 2356 in Brazil 289 Telenomus spp., in Colombia 3940
Telenomus spp., in Colombia 3940 Trichogramma spp. in Colombia 3940
in Texas 3358 population dynamics of 5516 seasonal abundance of 3358, 6426
traps for 5516
diatraeae, Lixophaga Diaulinopsis, in New World 3858 Diazene, [(4-chlorophenyl)thio](2,4,5-
trichlorophenyl)- (see Chlorfensulphide) Diazinon (O,O-diethyl O-[6-methyl-2-(1-
methylethyl)-4-pyrimidinyl] phosphorothioate)
against Acanthococcus aceris, on apple 4335
Acrididae, on rice 6424 Agraulis vanillae, on passion fruit 407
Agriotes spp., on potato 1022 Anthonomus signatus, on strawberry 364
Ataenius spretulus, in sports turf 6208 Austroasca alfalfae, on lucerne 3447
A. viridigrisea, on lucerne 3447 Blattella germanica 6707
Brevennia rehi, on rice 6398 Chilo infuscatellus, on sugar-cane 1371
C. polychrysus, on rice 2376
Cofana spectra, on rice 6424 Conopia myopaeformis, on apple 6466

```
Diazinon contd.
    against contd.
        Contarinia sorghicola, on sorghum 3976, 5574
        Costelytra zealandica, in pastures 1422
        Cryptoblabes gnidiella, on Azolla 858
        Cyrtacanthacris guttulosa 822
        Dacus cucurbitae 1500
       Delia brassicae
on brussels sprouts 216
on radish 421, 5097
       on radish 421, 5097

D. platura, on Phaseolus vulgaris 6230
Diabrotica spp. 6253
Dicladispa armigera, on rice 6373
Distantiella theobroma, on cacao 4078
Enarmonia formosana, on apple 6466
Eotetranychus pruni, on grapevine 370
Eurygaster integriceps, on wheat 872
Formicides 826
        Formicidae 826
            in dwellings 3837
in food factories 3118
        Geococcus coffeae, on coffee
        Hemiberlesia rapax, on Actinidia
chinensis 5883
        Hydrellia spp., on rice 2372
        Leucinodes orbonalis, on eggplant
       Lycoriella mali, on mushroom
Lygus lineolaris, on strawberry
Nephotettix cincticeps, on rice
N. virescens, on rice 6424
Nilaparvata lugens 3397, 6719
on rice 3395, 5555
Nipaecoccus filamentosus, on
        pomegranate 4009
Nymphula depunctalis, on rice
N. responsalis, on Azolla 858
Ophiomyia phaseoli, on Vigna
unguiculata 5671
        Opogona sacchari, on banana
        Orseolia oryzae, on rice 328
        Perissopneumon tectonae, on guava 1997
        pests of cassava 1023
pests of Vigna radiata 433
Pheidole megacephala 526
                                                  5264
        Planococcus citri, on Citrus
Plodia interpunctella 1701
                                                            3800
        Proteoteras willingana, on Acer 1596
        Quadraspidiotus perniciosus
on apple 2434
on peach 2434
on pear 2434
        On pear 2434
Rhizoecus nemoralis, on coffee 1055
Sahlbergella singularis, on cacao 4078
Scirpophaga incertulas, on rice 2376
Sogatella furcifera 6719
        Spodoptera littoralis 226
        S. litura 3222
        Tarsonemus pallidus, on strawberry
              6450
        Tetranychus urticae 6716
    Tryporyza spp., on rice 882 formulations of, surfactants for
    in banana, toxicity of 6498
    in cabbage, residues of, effects of washing
and trimming on 998
    in citrus groves, non-target effects of
          3800
    in Coccinella septempunctata, toxicity of 1712
    in lentils
        effects on composition of 4401 residues of 4397
   in maize, metabolism of 1156
in Phaseolus vulgaris seeds
effects on composition of 4401
residues of 4397
        not affecting germination 3905
        stimulating reproduction by Nilaparvata lugens 3927, 3928
    in rice-fields
        causing outbreaks of Nilaparvata lugens
3389
    effects on parasitic insects of 328 non-target effects of 6424 in Vicia faba seeds
   effects on composition of 4401 residues of 4397 in wheat, residues of 6363 in wheat grain, effects on composition of
```

```
orbonalis, on eggplant 5705
     with methoxychlor, against,
Macrodactylus subspinosus, on grapevine 3457

Dibenzochrysene, tetramethoxy-, in technical methoxychlor 3205
Dibrachys, parasitising, Neodiprion excitat
      in Belize 1071
Dibrachys cavus
    in Yugoslavia
    parasitising
         Apanteles spp., in Yugoslavia 5792
         Meteorus versicolor, in Yugoslavia
               5792
Dichelops, on soyabean, damage caused by
      1516
Dichlorvos (2,2-dichloroethenyl dimethyl
      phosphate)
    against
         Anthonomus rubi, on strawberry
        Aphanostigma piri, on pear 2965
Batocera rufomaculata, on mango 95
Calacarus citrifolii, on banana 2982
Callosobruchus chinensis, in Vigna mungo seeds 5227
Cysteochila ablusa, on Bauhinia 1550
Dialeurodes citri, on Citrus 2968
         Dichocrocis punctiferalis, on cardamo
         Empoasca fabae 1429
Ephestia elutella, in stored grain 588
E. kuehniella, in stored grain 588
Eriosoma lanigerum, on apple 5071,
         Formicidae, in food factories 3118
Heliothis armigera, on tomato 6550
         Hemiberlesia rapax, on Actinidia chinensis 5883
         Hercinothrips bicinctus, on banana
                2982
        2982
Leptocorisa spp., on rice 3969
Myllocerus discolor 3048
Nilaparvata lugens, on rice 5563
pests of rice 3941
pests of seeds 6182
pests of stored grain 1115, 2603
Pheidole megacephala 5264
Phyllocnistis citrella, on Citrus 2
Plodia interpunctella 1701
         Plodia interpunctella 1701
in stored grain 588
Rhyzopertha dominica, in stored grain
3130
         Sitophilus granarius, in stored grain 3130
          S. oryzae, in stored grain 3130
         Sylepta derogata, on cotton 2
Tetranychidae, on bean 1505
                                                                   2538
         Tetranychus lombardini, on banana
2982
         Tribolium castaneum
    in grain bins 4127
in stored grain 3130
T. confusum 4398, 5824
Trogoderma granarium 6180
fumigant for, grain bins 4127
in Acheta domesticus, effects on melanisation of 4705
in Arie mellifora toxicity of 67
    in Apis mellifera, toxicity of 678 in Cocinella septempunctata, toxicity of
           1712
    in Eumorpha satellitia, effects on coloration of 4315 in grain dust, reducing residues of 1611 in lentils, effects on composition of 440 in Periplaneta americana, effects on
    melanisation of 4705
in Phaseolus vulgaris seeds, effects on
composition of 4401
    in rice grain, not persisting 111
                                                             1112
    in sacking, persistence of 5824
in Vicia faba seeds, effects on composition
of 4401
    in wheat grain, effects on composition of
```

4401

of rice 3941

synergists for, piperonyl butoxide as 4398 with Bacillus thuringiensis, against, pests

3		
hlorvos contd.	Dicofol contd.	Dicrotophos contd.
rith dioxacarb, against, Tribolium	against contd.	with phosfolan, against, Heliothis
confusum 4398	Tyrophagus putrescentiae 5012	armigera 1149
rith iodofenphos, against, Tribolium	resistance to, in	Dictyna sublata
confusum 4398 vith malathion	Tetranychus cinnabarinus, development of 6717	in USA 4919
against	T. urticae 1040	in apple orchards, in Virginia 4919 prey of 4919
Mythimna separata, on rice 5558	synergists for, piperonyl butoxide as	Dictyopharidae, in New Zealand 4210
Tribolium confusum 4398	1041	Dictyoploca japonica, enzymes in 44
rith phosalone, against, pests of rice	with dimethoate, against, Brevipalpus	Dictyoptera, on leguminous crops, in Egypt
3941 with phosphamidon, in rice-fields, causing	californicus, on Citrus 983	4357
outbreaks of Nilaparvata lugens 3389	with parathion, against, Brevipalpus	Didacus vertebratus
with piperonyl butoxide, antagonistic	californicus, on Citrus 983 with tetradifon	biology of 422 in Nigeria 422
4398	against, Tetranychus urticae, on Citrus	Didelphis marsupialis, Lymantria dispar
rith Verticillium lecanii, against, pests of rice 3941	4569	nuclear polyhedrosis virus in, passage
hocrocis punctiferalis	in Cales noacki, not toxic 3493	through gut of 1568
iology of 1937, 2507	in Phytoseiulus persimilis, toxicity of	didymator, Hyposoter
ontrol of	4050 Dicraeus	Didymella applanata, in, raspberry, in Scotland 940
destroying of infested material for 283	in Africa 2899	Dieldrin $((1a\alpha, 2\beta, 2a\alpha, 3\beta, 6\beta, 6a\alpha, 7\beta, 7a\alpha)$
removing infested material for 378	taxonomy of 2899	3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a
lustrations of 1937	Dicraeus ingratus	octahydro-2,7:3,6-dimethanonaphth[2,3-
Australia 1937	in USSR 1418	b]oxirene)
1 India 283, 378, 2506, 2822	on Bromus racemosus, varietal preferences	against
n castor development of 2507	of 1418 Dicraeus pennisetivora	Amnemus superciliaris, on Desmodium 2921
in Bihar 2506	sp. nov., description of 2899	Atta laevigata 5460
in Gujarat 2822	in Nigeria 2899	Carpomyia vesuviana 6477
in Tamil Nadu 283	in Senegal 2899	Coptotermes formosanus, in pine wood
n Elettaria cardamomum, in Tamil Nadu 283	in Upper Volta 2899 on <i>Pennisetum americanum</i> , in West	5487 Eublemma amabilis 1350
n mulberry, in India 378	Africa 2899	Euproctis chrysorrhoea, on Rubus 66
n sorghum, damage caused by 1937	Dicraeus tibialis	Heterotermes indicola, in pine wood
arasites of, in Gujarat 2822	in USSR 1418	5487
earing of, techniques for 4877	on Bromus racemosus, varietal preferences	locusts 5910
hocrocis punctiferalis semifasciata 2507 homeris ligulella	of 1418 Dicranolaius bellulus	Otiorhynchus sulcatus, on strawberry 215
USA 1081	in Australia 2546	pests of cassava 1023
n Quercus, in Delaware 1081	in cotton-field borders, in Queensland	pests of structural wood 2097
hromorpha viridis	2546	Schistocerca gregaria, on wheat 5911
u USA 347 grassland	Dicranotropis hamata in UK 2918	Sitona lineatus, on Vicia faba 6509 Spodoptera litura, on cauliflower 247
effects of fertilizers on 347	on Holcus mollis, resource utilisation by	determination of 6702
effects of insecticides on 347	2918	in Atta laevigata, effects on respiration o
roum, Apion	Dicrotophos ((E)-3-(dimethylamino)-1-	5460
ladispa armigera ontrol of, insecticides for 2487, 5561,	methyl-3-oxo-1-propenyl dimethyl phosphate)	in cauliflower, persistence of 2473 in foodstuffs, residues of 3210
6373, 6374, 6403	against	in Kerria lacca, toxicity of 1350
eeding behaviour in 6409	Achaea janata, on castor 5711	in Loxosceles spinulosa, toxicity of 632
ood-plants of 2375	Aphis craccivora, on cotton 4339	in maize, not translocated 2145
n Bangladesh 5032 n India 907, 2375, 2487, 3894, 5553,	A. gossypii, on cotton 4339 Brevennia rehi, on rice 6398	in meat, residues of 5981 in Oxyopes longispinosa, toxicity of 632
5561, 6374, 6403, 6415, 6422	Cerococcus spp., on coffee 4083	in Pennisetum americanum, not
n Cynodon dactylon, in Punjab 2375	Chilo polychrysus, on rice 2376	translocated 2145
n Echinochloa colonum, in Punjab	Frankliniella spp., on cotton 4071	in pine wood, persistence of 5487
2375 n <i>Echinochloa crus-galli</i> , in Punjab	Heliothis armigera 1149 Nilaparvata lugens, on rice 3961	in Salticus, toxicity of 6328 in soil
2375	Oebalus insularis, on rice 2299	aldrin product 2145, 5680
n Paspalum distichum, in Punjab 2375	pests of cotton 2528	effects of 2141
n rice	Scirpophaga incertulas, on rice 2376	residues of 1519
effects of fertilizers on 6422 effects of plant spacing on 907	Sylepta derogata, on cotton 2538 Taeniothrips spp., on apple 5070	in soyabean, residues of 1519 resistance to, in
feeding by 6409	Thrips tabaci, on cotton 4071	Ephestia cautella, in New South Wales
in Bangladesh 5032	in Acheta domesticus, effects on	1110
in Himachal Pradesh 6403	melanisation of 4705 in <i>Periplaneta americana</i> , effects on	E. kuehniella, in New South Wales 1110
in Madhya Pradesh 2487, 5561 in Punjab 2375, 3894, 5553, 6374	melanisation of 4705	Plodia interpunctella, in New South
varietal preferences of 6415	with chlordane, against, Heliothis	Wales 1110
n wheat, in Punjab 3894	armigera 1149	Popillia japonica, in New Jersey 4157
utbreaks of 6403	with chlorpyrifos	4883
ladocerus japonicus, rearing of 530 ladocerus westwoodii, rearing of 530	against Heliothis armigera 1149	synaptic transmission as affected by 123 use of, value judgements in 5910
ofol (4-chloro-α-(4-chlorophenyl)-α-	Spodoptera littoralis 225	with Bacillus thuringiensis, against,
(trichloromethyl)benzenemethanol)	antagonistic 225	Euproctis chrysorrhoea, on Rubus
gainst	with DDT, against, Heliothis armigera	668
Brevipalpus californicus, on guava 989 B. pulcher, on Citrus 952	1149 with endrin	with malathion, against, <i>Tribolium</i> castaneum 3220
Eriophyes aloinis 5141	against	diemenalis, Lamprosema
Eutetranychus orientalis, on Citrus	Agrotis ipsilon, on cotton 2536	Dienochlor (1,1',2,2',3,3',4,4',5,5'-
2450	Heliothis armigera 1149	decachlorobi-2,4-cyclopentadien-1-yl)
Physical States 1008	Spodoptera littoralis 225 with EPN, against, Heliothis armigera	against, Tetranychus urticae, on rose 5735
Phaseolus vulgaris 1008 Tarsonemus pallidus, on strawberry	1149	Diethion (see Ethion)
6450	with HCH, against, Heliothis armigera	dietrichi, Melanotus
Tetranychidae, on cassava 6544	1149	Difenzolium (see Difenzoquat)
Tetranychus cinnabarinus 490	with leptophos, against, Heliothis armigera 1149	Difenzoquat (1,2-dimethyl-3,5-diphenyl-1 <i>H</i> pyrazolium)
T. desertorum, on Phaseolus vulgaris 1008	with mephosfolan, against, Heliothis	in Apis mellifera, toxicity of 1710
T. lombardini, on banana 988	armigera 1149	differentialis, Melanoplus
T. urticae 1039, 1041, 3357	with methomyl, against, Heliothis	diffluellus, Yponomeuta

```
Diflubenzuron (N-[[(4-chlorophenyl)amino]carbonyl]-2,6-
                                                                                                   Diflubenzuron contd.
                                                                                                                                                                                                      Dimefox (tetramethylphosphorodiamidic
                                                                                                        in Pseudoplusia includens, effects on food
                                                                                                                                                                                                             fluoride)
                                                                                                        consumption of 5991
in soil, degradation of 3545
                                                                                                                                                                                                      in Apis mellifera, toxicity of 1710

Dimethametryn (N-(1,2-dimethylpropyl)-N
ethyl-6-(methylthio)-1,3,5-triazine-2,4-
       difluorobenzamide)
         Acantholyda erythrocephala, on Pinus
                                                                                                        in Spodoptera littoralis
                1560
                                                                                                            effects on egg respiration of 6727 effects on reproduction of 682
         A. pinivora, on Pinus 1560
                                                                                                                                                                                                            with piperophos, in rice-fields, effects on
                                                                                                                                                                                                      with piperophos, in rice-fields, effects on insect pests of 882

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10 hexachloro-1,4,4a,5,8,8a-hexahydro-(1α,4α,4αβ,5α,8α,8αβ)- (see Aldrin) (1α,4α,4αβ,5β,8β,8αβ)- (see Isodrin)

2,7:3,6-Dimethanonaphth[2,3-b]oxirene,
         Anarsia lineatella, on peach 5615
                                                                                                            morphogenetic activity of 681
                                                                                                            no resistance to 4382
         Anthonomus grandis, on cotton 2544,
                                                                                                        on Pseudotsuga menziesii, effects of rain
                5725
         Athalia rosae, on mustard 4714
                                                                                                              on 2072
         Choristoneura fumiferana 1167
Cydia molesta, on peach 5615
                                                                                                        photodegradation of, effects of particle
                                                                                                               size on 3216
                                                                                                                                                                                                             3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a
         C. pomonella 209, 1450
                                                                                                        sterilant for
                                                                                                            Anthonomus grandis 1049, 2545, 2723, 3551
                                                                                                                                                                                                              octahydro-
             on pear 3483
                                                                                                                                                                                                           (1a\alpha,2\beta,2a\alpha,3\beta,6\beta,6a\alpha,7\beta,7a\alpha)- (see
         Dendroctonus rufipennis, on Picea
                                                                                                                                                                                                                  Dieldrin)
                                                                                                             Hylobius abietis 4088
                5212
                                                                                                                                                                                                           (1a\alpha,2\beta,2a\beta,3\alpha,6\alpha,6a\beta,7\beta,7a\alpha)- (see
         Diprionidae, on Pinus 5741
                                                                                                        with Bacillus thuringiensis
                                                                                                                                                                                                                  Endrin)
                                                                                                            against
         Ephestia cautella, in groundnuts 6665
                                                                                                                                                                                                       Dimethoate (O,O-dimethyl S-[2-
(methylamino)-2-oxoethyl]
         Euproctis chrysorrhoea, on Rubus 668
                                                                                                                 Euproctis chrysorrhoea, on Rubus
         E. melania 3798
                                                                                                                       668
                                                                                                                                                                                                             phosphorodithioate)
         Gastrophysa viridula, on Rumex 2150
                                                                                                                 E. melania 3798
                                                                                                                                                                                                           against
         Graphognathus leucoloma
on lucerne 1430
                                                                                                        with carbaryl, against, Euproctis melania
                                                                                                                                                                                                                Acrocercops cramerella, on Litchi chinensis 408
                                                                                                               3798
                                                                                                                                                                                                                Acyrthosiphon kondoi, on lucerne 1954
              on soyabean 4167
                                                                                                        with endosulfan
        on soyabean 4167
G. peregrinus, on soyabean 4167
Heliothis armigera, on cotton 208
H. virescens 2985
Hylobius abietis, on Pinus 4088
Hylotrupes bajulus, in wood 6663
Lycoriella mali, on mushroom 4016
Lymantria dispar 4897
on Quercus 1560, 4642
Malacosoma disstria, on Populus 1094
Melolontha melolontha, on Fagus 2150
                                                                                                             against
                                                                                                                                                                                                                Agrotis segetum 6709
on tobacco 1554
Aleurocanthus woglumi, on Citrus
3502, 4566
Amrasca biguttula
                                                                                                                 Earias insulana, on cotton 227
Pectinophora gossypiella, on cotton
227
                                                                                                            Spodoptera littoralis
on castor 4374
on cotton 4065
in cotton fields, non-target effects of
                                                                                                                                                                                                                    on cotton 5719, 6561
on potato 2495
                                                                                                                                                                                                                A. devastans, on okra 4017
Anaphothrips obscurus, on maize 315
                                                                                                                    4065
                                                                                                        with insecticides 4385
                                                                                                        with methomyl, against, Spodoptera littoralis, on castor 4374
                                                                                                                                                                                                                Anthonomus signatus, on strawberry
         Neodiprion sertifer, on Pinus 1560
Nephantis serinopa, on coconut 4542
Orgyia pseudotsugata, on Pseudotsuga
2072
                                                                                                                                                                                                                Antigastra catalaunalis, on sesame 4055
                                                                                                   Digitaria, Hysteroneura setariae on, in
Taiwan 3316
                                                                                                   Digitaria ciliaris, cereal chlorotic mottle virus in, infectivity of 867
                                                                                                                                                                                                                 Aphis citricola, on grapevine 941
                                                                                                                                                                                                                A gossypii 2645
on eggplant 5707
Argyroploce leucaspis, on Litchi
chinensis 6497
         Ottorhynchus sulcatus, on Taxus 5185
pests of Quercus 3094
Pieris brassicae 3216
                                                                                                   Digitaria gayana, Messor gallus on, in Ivory
Coast 4434
          Plutella xylostella, on cabbage 5657
         Pilleula Xylostella, on capoage 565/
Psila rosae, on carrot 2023
Schistocerca gregaria 2136
Spodoptera exigua 2985
S. littoralis 223, 4378, 4382, 6727
on castor 4374
on cotton 4065, 4385
Tetranychus cinnabarinus 3817
Thaumetopoea pityocampa, on Pinus
5188
                                                                                                                                                                                                               Asterolecanium pustulans, on fig 44(
Austroasca alfalfae, on lucerne 3447
A. viridigrisea, on lucerne 3447
Baliothrips biformis, on rice 890
Brevipalpus californicus, on Citrus 9
B. pulcher
                                                                                                        parasitising, Agromyza oryzae, in Japan
                                                                                                              346
                                                                                                   taxonomy of 3858

Diglyphus insularis, in Brazil 3858

Diglyphus intermedius
                                                                                                        cross-mating of, with, Diglyphus isaea 3858
                                                                                                                                                                                                              B. pulcher
on apple 953
on Citrus 952
Coccus viridis, on mandarin 5634
Cydia delineana, on hemp 3047
C. molesta, on peach 2966
C. pomonella, on apple 3469
Cysteochila ablusa, on Bauhinia 1
Dacus oleae, on olive 1477, 2458
D. tryoni, on passion fruit 3511
D. tryoni, on passion fruit 3511
D. tryoni, on passion fruit 3511
                                                                                                        in USA
                5188
                                                                                                        in tomato fields, effects of insecticides on
    Trichoplusia ni 2985
antifeedant for, Nephantis serinopa, on
coconut 4542
                                                                                                               473
                                                                                                        parasitising, Liriomyza sativae, in Florida
                                                                                                              473
    in Anthonomus grandis
effects on flight activity of 3551
                                                                                                   Diglyphus isaea
                                                                                                        cross-mating of, with, Diglyphus intermedius 3858
         effects on mating competitiveness of
                                                                                                        in Japan 427
in USA, introductions of 3858
                                                                                                                                                                                                                Delia brassicae, on radish 5097
                2723
    2723
in Apis mellifera, toxicity of 678
in Athalia rosae, effects of 4714
in Brachymeria intermedia, inducing multiple progeny emergence 4910
in Brachymeria lasus, inducing multiple progeny emergence 4910
in Ceratitis capitata, effects of 3232
in cotton, metabolism of 3545
in cotton fields, non-target effects of 4065
                                                                                                                                                                                                                 Dialeurodes citri, on Citrus 2968
                                                                                                        parasitising
                                                                                                                                                                                                                Dichocrocis punctiferalis, on cardamon
                                                                                                            Agromyza frontella, and biological control using, in USA 2928
                                                                                                                                                                                                                      283
                                                                                                                                                                                                                Drosophila melanogaster 2636
Earias spp., on okra 4017
Edwardsiana iranicola, on Platanus
                                                                                                   Phytomyza horticola, in Honshu rearing of, techniques for 2928 Diglyphus pulchripes, descriptions of Diglyphus websteri, in Peru 3858 dignoides, Telenomus dignus, Apanteles dignus, Telenomus
                                                                                                                                                                                 3858
                                                                                                                                                                                                                      6607
                                                                                                                                                                                                                Eurygaster integriceps, on wheat 670, 6361
           4065
                                                                                                                                                                                                                Eutetranychus orientalis, on Citrus
    in cucumber fields, effects on soil-
inhabiting mites of 2478
in Dendroctonus rufipennis, inhibiting
brood production 5212
in forests, non-target effects of 2077
in Graphognathus leucoloma, effects of
                                                                                                                                                                                                                      2450
                                                                                                                                                                                                               2430
Exclastis atomosa 3009
Graphocephala atropunctata, on grapevine 5591
Gryllotalpa spp., on tobacco 1554
Heliothis armigera, on tomato 6550
Hemiberlesia lataniae, on fig 4400
Loxostege sticticalis 6700
Lycoriella mali, on mushroom 4016
Lygus linealaris, on strawberty 364
                                                                                                   dilatata, Anisolemnia
dilatatus, Glyptotermes
dilectus, Apanteles
                                                                                                   Dill (Anethum graveolens)
as companion crop for insect control
     in Graphognathus peregrinus, effects of
                                                                                                   insecticidal activity of oil from 6173
repellent activity of oil from 6173
dillonii, Heliocopris
Diloba caeruleocephala
in USSR 2946
            4167
                                                                                                                                                                                                               Lycoriella mali, on mushroom 401
Lygus lineolaris, on strawberry 35
Myzus persicae, on potato 2495
Nezara viridula, on soyabean 6520
Nilaparvata lugens, on rice 3395
Ophiomyia phaseoli
on Vigna radiata 430, 431
on Vigna unguiculata 5671
Oscinella frit, on wheat 670
Pectinophora gossypiella, on cotton 6561
     in Lymantria dispar, effects on parasites
     of 4642
in Nephantis serinopa
         effects on parasites of 4542
                                                                                                  in USSR 2946
on fruit trees, in USSR 2946
Dilobidae, rearing of, diets for 1850
Dilophus, female terminalia in 5300
Dilor (see 4,7-Methano-1H-indene, 2,4,5,6,7,8,8-heptachloro-2,3,3a,4,7,7a-hexahydro-)
Dimecron (see Phosphamidon)
Dimecron combi (see Fenitrothion, with phosphamidon)
    morphogenetic effects of 684
in Oncopeltus fasciatus, inhibition of
chitin synthesis by 1164
in Parasierola nephantidis, effects of
            4542
    in pear orchards, non-target effects of 3483
                                                                                                                                                                                                                      6561
                                                                                                                                                                                                                Pegomya hyoscyami, on sugar-beet 4591
    in Pieris brassicae, inhibition of chitin synthesis by 2152
                                                                                                                                                                                                                pests of cotton 2528, 3819, 4068
```

imethoate contd.	Dimethoate contd.	Dinotiscus dendroctoni
against contd.	with herbicides 2867	host preferences in 5151
pests of grain crops 2867	with oil emulsion	in USA 5151
pests of potato 3019	against	parasitising
Phyllocnistis citrella, on Citrus 2968	Aonidiella aurantii, on Citrus 4402	Dendroctonus frontalis, in Georgia
Phyllonorycter platani, on Platanus 6607	Asterolecanium pustulans, on fig	(USA) 5151
Planococcus citri	4400 Hemiberlesia lataniae, on fig 4400	Ips grandicollis, in Georgia (USA) 5151
on Citrus 3500	with protein hydrolysate 1477	Dinotiscus eupterus
on passion fruit 3511	Dimethoxon (see Omethoate)	biology of 5397
Prays oleae, on olive 984	Dimethyl sulfoxide (sulfinylbis[methane])	in USSR 5397
Proteoteras willingana, on Acer 1596	in diazinon formulations, effects on	parasitising, Scolytidae, in Lithuania
Pterochloroides persicae 5614 on peach 398	insecticidal activity of 6707 Dimetilan (1-[(dimethylamino)carbonyl]-5-	5397 Diogmites missouriensis
Pyrilla perpusilla, on sugar-cane 3879,	methyl-1 <i>H</i> -pyrazol-3-yl	foraging behaviour in 2336
5515	dimethylcarbamate)	in USA 2336
Rhopalosiphum padi, on grain crops	attractant for, Dacus oleae 2458	prey of 2336
2878 Schizaphis graminum, on wheat 670	in Bracon hebetor, toxicity of 3814 in Chelonus elaeaphilus, toxicity of 3814	Diomus notescens in Australia 2546
Scirtothrips dorsalis, on cashew 1969	with bromophos, against, Dacus oleae, on	in cotton-field borders, in Queensland
Sitobion avenae	olive 2458	2546
on grain crops 2878, 6349	with dimethoate, against, Dacus oleae, on	Diopsis macrophthalma (see also Diopsis
on wheat 6361	olive 2458	thoracica)
Sundapteryx biguttula, on castor 4054 Tetraleurodes semilunaris, on	with fenthion, against, Dacus oleae, on olive 2458	food-plants of 3973 in Malawi 1934
Cymbopogon 1942	Dimevur (see Dimethoate)	in Nigeria 3973
Tetranychus urticae 6716	dimidiatella, Opogona	on Cyperus difformis, in Nigeria 3973
Therioaphis trifolii, on lucerne 1954	dimidiatus, Carpophilus	on rice
Thrips tabaci	dimidiatus, Opius	damage caused by 1934
on cotton 5127 on tobacco 1554	Dimilin (see Diflubenzuron) dimorpha, Cydia (Grapholita)	in Nigeria 3973 pest status of 1934
Toxoptera citricida, on Citrus 4004	dimorpha, Grapholita (see Cydia dimorpha)	Diopsis thoracica (see also Diopsis
Tribolium castaneum 5810	Dinarmus colemani	macrophthalma)
in Apis mellifera, toxicity of 3336	in India 3680	parasitised by, Trichogrammatoidea
in Chrysopa boninensis, toxicity of 3041 in citrus groves	parasitising, Zabrotes subfasciatus, in India 3680	simmondsi 2169
effects on predatory insects of 4004	Dinarmus vagabundus	Dioryctria abietella biology of 556
exposure of agricultural workers to	in India 6666	in Finland 556
4160	parasitising, Callosobruchus analis, in	in Thailand 5175
in Coccinella repanda, toxicity of 6725	India 6666	on Picea abies, damage caused by 556
in coffee, toxicity of 6578 in cotton, effects of rain on 5719	Dinebra retroflexa, cereal chlorotic mottle virus in, infectivity of 867	on Pinus, in Thailand 5175 group of 3090
in cotton fields, effects on predatory	Dineura virididorsata	Dioryctria amatella
insects of 480	in Finland 5150	in USA 5776
in Drosophila melanogaster, effects of	on Betula, in Finland 5150	on Pinus taeda, attack periods of 5776
application site on susceptibility to	diniana, Zeiraphera	Dioryctria clarioralis
2636 in eggplant, persistence of 5707	Dinobuton (1-methylethyl 2-(1- methylpropyl)-4,6-dinitrophenyl	in USA 5776 on <i>Pinus taeda</i> , attack periods of 5776
in fruit trees, translocation of 3194	carbonate)	Dioryctria ebeli
in hop, translocation of 3194	in Apis mellifera, toxicity of 1710	sp. nov., description of 3090
in lemon, residues of 4160	Dinocap (mixture of isomers including 2-(1-	in USA 3090
in olive groves, effects on predatory	methylheptyl)-4,6-dinitrophenyl 2-	on Pinus elliottii, in USA 3090
insects of 984 in onion, nectar contamination with	butenoate) in glasshouses, effects on biological	on Pinus palustris, in USA 3090 on Pinus taeda, in USA 3090
3336	control of 5481	on Taxodium distichum, in USA 3090
in Ooencyrtus kuwanai, toxicity of 1159	with mancozeb	Dioryctria merkeli
in Opius concolor, toxicity of 204, 205	against, Aspergillus niger, in insect	sp. nov., description of 3090 in USA 3090
in orange, residues of 4160 in <i>Piper nigrum</i> , residues of 2858	rearing media 3324 in Heliothis virescens, toxicity of 3324	on Pinus elliottii, in USA 3090
in radish, toxicity of 5097	Dinoderus japonicus	on Pinus palustris, in USA 3090
in Rhopalosiphum maidis, not affecting	biology of 860	on Pinus taeda, in USA 3090
hemocytes 2696	control of	Dioryctria mutatella
in rice, not affecting germination 3905	insecticides for 860 steam treatment for 860	biology of 556 in Finland 556
in squash, residues of 4396 in <i>Telenomus terebrans</i> , toxicity of 1159	in China 860	on Pinus contorta, damage caused by
in tomato, residues of 4396	in bamboo canes, in Kiangsi Province	556
in Trichogramma embryophagum, toxicity	860	on Pinus sylvestris, damage caused by
of 1706	Dinoderus porcellus	556
in wheat, residues of 6361 in wheat fields, effects on predatory	in Nigeria 3651 in yam chips, damage caused by 3651	Dioryctria schuetzeella biology of 556
insects of 5998	Dinoprop (3-methyl-2-(1-methylethyl)-4,6-	in Finland 556
resistance to, in	dinitrophenol)	on Picea abies, damage caused by 556
Aculus cornutus, in New Zealand	against, Aphis pomi, on apple 6467	Dioryctria sylvestrella
3997	Dinorhynchus dybowskyi biology of 2569	in Thailand 5175 in Vietnam 5166
Myzus persicae, in New South Wales 1700	illustrations of 2569	on Pinus, in Thailand 5175
Tetranychus cinnabarinus, and cross-	in Japan 2569	on Pinus caribaea, in Vietnam 5166
resistance 6717	parasites of, in Hokkaido 2569	on Pinus massoniana, in Vietnam 5166
T. urticae 1041	prey of 2569	Dioryctria taedae
and cross-resistance 1040 Therioaphis trifolii, in New South	preyed on by, birds, in Hokkaido 2569 preying on, Lymantria dispar, in	taxonomy of characters distinguishing <i>D. merkeli</i>
Wales 4541	Hokkaido 2569	and 3090
Trialeurodes vaporariorum, in Bulgaria	Dinoseb (2-(1-methylpropyl)-4,6-	characters distinguishing D. yatesi and
5267	dinitrophenol)	3090
with chlorobenzilate, against, Brevipalpus	in cotton fields, effects on insects of	Dioryctria yatesi
californicus, on Citrus 983 with dicofol, against, Brevipalpus	4600 with oil emulsion, against, Saissetia oleae,	sp. nov., description of 3090 in USA 3090
californicus, on Citrus 983	on olive 6493	on Pinus pungens, in USA 3090
with dimetilan, against, Dacus oleae, on	Dinotiscus	Dioryctria zimmermanni, group of 3090
olive 2458	parasitising, Dendroctonus spp., in Mexico	Dioscorea cayenensis, yam mosaic virus in
with fenitrothion, against, Cydia delineana, on hemp 3047	taxonomy of, behavioural characters for	in Ivory Coast 3028 Dioscorea rotundata
with fertilizers 670, 6361	3845	insect pests of, in Togo 3029

```
2,9-Dioxatricyclo[3.3.1.04,7]nonane, 3,3,7-
Dioscorea rotundata contd.
                                                                                                                                                                                          Diprion pini contd.
     viruses in, in Togo 3029
                                                                                                                                                                                               mountain type of
                                                                                                                                                                                                                                 3570
                                                                                                    trimethyl- contd.
                                                                                                  with ethanol, and 2,6,6-
trimethylbicyclo[3.1.1]hept-2-ene,
attractant for, Xyloterus lineatus
Diospyros dygyna, Aleurocanthus woglumi
                                                                                                                                                                                              on Pinus sylvestris, in Italy 5741 sex attraction in 3581
on, development of 4005

Diospyros kaki (see Persimmon)
                                                                                                                                                                                               voltinism in 3570
Diospyros virginiana (wood), termiticidal
                                                                                                        4621, 4629
                                                                                                                                                                                           Diprion similis
                                                                                              2,9-Dioxatricyclo[4.2.1.04,7]nonane, 3,3,7-
                                                                                                                                                                                               in USA 5193
       activity of components of 2632
2,4-Dioxa-5-aza-3-phosphahept-5-ene-7-
                                                                                                    trimethyl-, Xyloterus lineatus responses
                                                                                                                                                                                               on Pinus strobus, in Iowa 5193
                                                                                                    to 5213
       nitrile, 3-methoxy-6-phenyl-, 3-sulfide
                                                                                                                                                                                           Diprionidae
       (see Phoxim-methyl)
                                                                                              Diparopsis
                                                                                                                                                                                              control of, behaviour-modifying chemicals for 1736
3,5-Dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile,
7-(2-chlorophenyl)-4-ethoxy-, 4-sulfide
                                                                                                  predators of
                                                                                                      effects of pesticides on 2159 in Swaziland 2159
                                                                                                                                                                                              in Lithuania 5387
on Pinus, in Italy 5741
       (see Chlorphoxim)
                                                                                                   research on, funded by UK 6002
3,5-Dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile,
                                                                                                                                                                                               parasitised by, Ichneumonidae, in Poland
                                                                                              Diparopsis castanea
       4-ethoxy-7-phenyl-, 4-sulfide (see
                                                                                                                                                                                                     2075
                                                                                                  control of
       Phoxim)
                                                                                                                                                                                           Dipsosocoridae, feeding habits of, evolution
                                                                                                      insecticides for 2160
6,8-Dioxabicyclo[3.2.1]octane, 1,5-dimethyl-
                                                                                                                                                                                                 of 2243
                                                                                                      mating disruption for
                                                                                                                                                  1740
     Dendroctonus brevicomis responses to,
                                                                                                 trap-plants for 2160
in Malawi 1740
in Swaziland 2160
ovipositor in 2160
                                                                                                                                                                                           Diptacus gigantorhynchus
                                                                                                                                                                                              descriptions of 388, 5075 in Bulgaria 388
           inhibited by Ips paraconfusus infested
            logs 5327
                                                                                                                                                                                               in West Germany 5075
     in Dendroctonus brevicomis, rate of
                                                                                                                                                                                              on apple, in Bulgaria 388
on Prunus, in West Germany 5075
            release of 3064
                                                                                                  predators of
    in Dendroctonus pseudotsugae 3606
with exo-7-ethyl-5-methyl-6,8-
dioxabicyclo[3.2.1]octane, and 7-
methyl-3-methylene-1,6-octadiene,
                                                                                             effects of insecticides on 2160
in Swaziland 2160
preyed on by, Chrysopa boninensis
Diparopsis watersi
control of
                                                                                                                                                                                           Diptera
                                                                                                                                                                       3041
                                                                                                                                                                                               book
                                                                                                                                                                                              in Afrotropical region, book 6003 in Comoro Islands 5449 in Finland 5403 in Italy 2292
           attractant for, Dendroctonus brevicomis 2580
                                                                                                 insecticides for 4885
integrated 4885
in Yemen 4885
on cotton, in Yemen 4885
     with 2,6,6-trimethylbicyclo[3.1.1]hept-2-
ene, attractant for, Dendroctonus
frontalis 2578
                                                                                                                                                                                               in Mongolia, book 3308
in agricultural soils, factors affecting
2758
                                                                                              Dipel (see Bacillus thuringiensis var. kurstaki)
6,8-Dioxabicyclo[3.2.1]octane, 5-ethyl-2,4-dimethyl-, with α-cubebene, and 4-
                                                                                                                                                                                               in cacao plantations, in Costa Rica
                                                                                              Dipeptidase, glycylglycine, in Chilo
auricilius gut 5319
Dipeptidase, glycylleucine, in Chilo
                                                                                                                                                                                               in Ceutorhynchus galls on rape, in Poland
       methyl-3-heptanol, attractant for,
                                                                                                                                                                                                     2469
       Scolytus multistriatus 2055, 4924, 5152,
                                                                                                                                                                                               in clover fields, in Egypt 4355 in grassland, succession of 3432
       6207
                                                                                                    auricilius gut 5319
                                                                                              Dipeptidase, proline, in Chilo auricilius gut
5319
6,8-Dioxabicyclo[3.2.1]octane, 7-ethyl-5-
                                                                                                                                                                                              in livestock housing, in France 5230 in soil, extracting of 4872 in vegetable fields, in South Carolina 2984
       methyl-
     aggregation disrupter for, Dendroctonus
                                                                                              Dipeptidase, prolyl, in Chilo auricilius gut
           frontalis 539
                                                                                                     5319
    with 4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one, aggregation disrupter for, Dendroctonus frontalis 539 endo-, with exo-7-ethyl-5-methyl-6,8-dioxabicyclo[3.2.1]octane, and 4,6-6-trimethylbicyclo[3.1.1]hept-3-en-2-one, aggregation disrupter for, Dendroctonus frontalis 3590 exo-
                                                                                             5319
Diphosphoric acid, tetraethyl ester (see TEPP)
Diplazon laetatorius
in Poland 3995
parasitising, Syrphidae, in Poland 3995
Diplazon pectoratorius, parasitising, Syrphus
spp., in Palaearctic region 3346
Diplazon tetragonus
in Poland 3995
parasitising, Syrphidae, in Poland 3995
                                                                                                                                                                                               in wheat fields
                                                                                                                                                                                                   effects of burning of stubble on 2889 in USSR 2870
                                                                                                                                                                                               insecticide resistance in 1143
                                                                                                                                                                                               on forest trees, ecophysiology of, book
5798
                                                                                                                                                                                              on Larix decidua, in Poland 2593
on leguminous crops, in Egypt 4357
on lucerne, assessing infestations of
     exo
        Dendroctonus brevicomis responses to, inhibited by Ips paraconfusus infested logs 5327 in Dendroctonus brevicomis, rate of release of 3064 with 1,5-dimethyl-6,8-dioxabicyclo[3.2.1]octane, and 7-methyl-3-methylene-1,6-octadiene, attractant for, Dendroctonus brevicomis 2580 with endo-7-ethyl-5-methyl-6.8-
                                                                                              in Foland 3993
parasitising, Syrphidae, in Poland 3995
Diplazon tibiatorius, parasitising, Scaeva
pyrastri, in Palaearctic region 3346
Diplazon tricinctus (see D. tetragonus)
                                                                                                                                                                                              on soyabean
in Kenya 1520
in New South Wales 1518
on sunflower, in Kenya 1541
population age distribution in
                                                                                              Diplocolenus bensoni
in UK 2918
                                                                                                                                                                                               preyed on by
                                                                                                  on Holcus mollis, resource utilisation by
                                                                                                                                                                                                    Corvus frugilegus, in New Zealand
                                                                                                        2918
                                                                                                                                                                                                          2919
                                                                                              Diplocyclos palmatus, Dacus cucurbitae on, in Kyushu 1501
                                                                                                                                                                                                    Holcocephala fusca, in Virginia 3350
                                                                                                                                                                                               preying on
with endo-7-ethyl-5-methyl-6,8-
dioxabicyclo[3.2.1]octane, and 4,6,6-
trimethylbicyclo[3.1.1]hept-3-en-2-
one, aggregation disrupter for,
Dendroctonus frontalis 3590
Dioxacarb (2-(1,3-dioxolan-2-yl)phenyl
methylcarhamate)
                                                                                              Diplopoda
                                                                                                                                                                                                    Achatina fulica
                                                                                                  on cucumber, in UK 6508
                                                                                                                                                                                                   molluscs 4449
                                                                                                                                                                                           tree-trunk pests, in USSR 580

Dipterine (see 1H-Indole-3-ethanamine, N-methyl-)
                                                                                                  on groundnut, damage caused by 3145
                                                                                                 preying on
Achatina fulica 4983
molluscs 4449
                                                                                                                                                                                          Dipterocarpus turbinatus, Rhaphipodus hopei on, in India 284
Dipterur (see Trichlorphon)
Diptilomiopus bengalensis
sp. nov., description of 4727
in India 4727
       methylcarbamate)
                                                                                              Diploptera punctata
                                                                                             Diploptera punctata
growth regulators in, effects of 3231
juvenile hormones in, identifying of 56
Diplorhoptrum fugax (see Solenopsis fugax)
diplosidis, Aprostocetus (see Tetrastichus
diplosidis)
diplosidis, Tetrastichus (Aprostocetus)
Diplura, in soil, extracting of 4872, 4873
Diprion
     against
    Anthonomus rubi, on strawberry 6448
Sitobion avenae, on grain crops 6349
Tribolium confusum 4398, 5824
in Apis mellifera, toxicity of 1710
in sacking, persistence of 5824
in soil, not affecting fauna 1711
supervisit for priscopul buyoide as
                                                                                                                                                                                               on Gardenia jasminoides, in West Bengal
                                                                                                                                                                                                     4727
                                                                                                                                                                                          Dipyrido[1,2-a:2',1'-c]pyrazinediium, 6,7-dihydro- (see Diquat)
Diquat (6,7-dihydrodipyrido[1,2-a:2',1'-c]pyrazinediium)
in Pinus, for stimulating oleoresin
     synergists for, piperonyl butoxide as 4398
                                                                                              Diprion
                                                                                                  on Pinus
     with dichlorvos, against, Tribolium confusum 4398
                                                                                                      in Thailand 5175
in Vietnam 5166
     with iodofenphos, against, Tribolium confusum 4398
                                                                                              Diprion nipponica
in Japan 6586
outbreaks of 6586
                                                                                                                                                                                          production 5181

dirhodum, Acyrthosiphon (see
Metopolophium dirhodum)
dirhodum, Metopolophium (Acyrthosiphon)
comusum 4398
with malathion, against, Tribolium
confusum 4398
Dioxathion (S,S'-1,4-dioxane-2,3-diyl
bis(O,O-diethyl phosphorodithioate))
against, Tetranychus urticae 6716
2,9-Dioxatricyclo[3.3.1.0<sup>8,7</sup>]nonane, 3,3,7-
trimethyl
                                                                                              Diprion pini
biology of 5741
control of 5741
                                                                                                                                                                                          discessus, Opsius
Discestra trifolii
                                                                                                  development in, effects of temperature on 5796
                                                                                                                                                                                              attractants for 3235, 59
in Canada 5993
in Czechoslovakia 3235
in Poland 1864
                                                                                                                                                                                                                            3235, 5993
     trimethyl-
attractant for
                                                                                                  diapause in 5796
                                                                                                 emergence in 3570
in Italy 5741
in USSR 5796
in West Germany 358
lowland type of 3570
     Xyloterus domesticus 4629
X. lineatus 4097, 4629, 5213
laboratory synthesis of 4097
Xyloterus lineatus responses to
                                                                                                                                                                                               rearing of, techniques for 2291
                                                                                                                                                                                              of maize fields, effects on pests and
predators of 857
```

2,4-Dodecadienoic acid, 11-hydroxy-3,7,11-

bject Index
seing contd.
of oat fields, effects on Oulema melanope and parasites of 873
of pastures, role in pest control of 6432
color, Eutromula vinosa color, Micraspis (Verania)
color, Myllocerus
color, Verania (see Micraspis discolor) continua, Myrmica brevispinosa
smutase, superoxide, in Schistocerca
gregaria cuticle 3261 par, Anisandrus (see Xyleborus dispar)
par, Lymantria (Ocneria; Porthetria)
par, Ocneria (see Lymantria dispar) par, Porthetria (see Lymantria dispar)
par, Xyleborus (Anisandrus) paris, Anastatus (see A. japonicus)
paris, Phobocampe
sparlure (cis-2-decyl-3-(5- methylhexyl)oxirane)
Lymantria dispar 6608 L. monacha 4637
dispensers for 1676
ormulations of, controlled-release 1589 n forests, not affecting parasitism of
I umantria dienar 573
Lymantria dispar responses to isomers of 5278
L. monacha responses to
effects of biophysical fields on 4637 effects of weather on 4637
nating disrupter for, Lymantria dispar 577, 1589, 3591, 6057
-)-, Lymantria dispar responses to 780 +)-, Lymantria dispar responses to 78
(+)-, Lymantria dispar responses to 78 persus, Aleurodicus
plicata, Araniella
ponsi, Lygus rupta, Zygogramma
severans, Mocis
stria, Malacosoma stannoxane, hexakis(2-methyl-2-
phenylpropyl)- (see Fenbutatin oxide) tans, Odontotermes
tans, Odontotermes stantiella theobroma
control of, insecticides for 583, 4078
n Cameroon 583, 4078 on cacao
damage caused by 583 in Cameroon 4078
stichlis spicata, sap-feeding insects on, richness and diversity of guild of 4528
richness and diversity of guild of 4528 tigma, Phelypera
tincta, Chrysobothris tincta, Plagiodera versicolora (see P.
tincta, Plagiodera versicolora (see P. versicolora)
tinguendus, Acanthoscelides
stribution maps Achaea janata 3303
Brevennia rehi 3303
Cephus cinctus 3303 C. pygmeus 3303
Hercinothrips femoralis 3303 Myzus persicae 3303
Sesamia nonagrioides 3303
Tetranychus marianae 3303 Xestia c-nigrum 3303
strict of Columbia, Rhizoecus palestinea
in, on imported ornamental plants 30: sulfide, dimethyl
Acrolepiopsis assectella oviposition
responses to 2499 attractant for, Megaponera foetens 386
sulfide, dipropyl, Acrolepiopsis assectella
animosition manages to 2400
oviposition responses to 2499 saulfoton (O,O-diethyl S-[2-

Aceria tulipae, on wheat 5529 Agromyzidae, on Vigna radiata 445 Amrasca biguttula, on potato 2494,

A. devastans, on cotton 2038 Aphis gossypii, on sugar-beet 6532 Athalia lugens, on Brassica juncea

americanum 1928

Atherigona approximata, on Pennisetum

soccata, on sorghum 2404, 5041

Bagrada hilaris, on Brassica juncea

Bemisia tabaci, on cotton 2038

2495

2475

Brevicoryne brassicae on brussels sprouts 1758 on rape 6505 Caliothrips indicus, on potato 2494 Carvalhoia arecae, on Areca catechu 6446 Chilo infuscatellus, on sugar-cane 1371 Coccus viridis, on mandarin 5634 Delia platura, on Phaseolus vulgaris 6230 Dicladispa armigera, on rice 5561 Eurygaster integriceps, on wheat Leucinodes orbonalis, on eggplant 4052 Lipaphis erysimi on Brassica juncea 2475 on rape 1999 Melanaspis glomerata, on sugar-cane 6345 Myzus persicae on potato 219, 2494, 2495, 3016 on sugar-beet 6532 Thysanoplusia orichalcea, on Brassica juncea 2475 in coffee, toxicity of 6578 in cotton-field soil, persistence of 2543 in potato, effects of 2029 New South Wales 4541
with carbofuran, in tobacco plantations, effects on predatory insects of 4934
Disyston (see Disulfoton)
1,3-Dithiolan-2-imine, 4-methyl-, mephosfolan photoproduct 2146
1,3-Dithiolan-2-one, 4-methyl-, mephosfolan photoproduct 2146
1,3-Dithiolof4,5-b]quinoxalin-2-one, 6-methyl- (see Quinomethionate)
Ditrysia, food preferences in, evolution of 5434
Diuraphis poxin Diuraphis noxia biology of 1920 control of, insecticides for 3375 in USSR 1920, 3375 on wheat damage caused by 3375 in Ukraine 1920 Diurna, in Italy 1309 Diurna, in Italy
Diurna
Diurna
Diurna
food-plants of 4640
in Japan 4640
diversa, Rutilotrixa
diversicornis, Anagyrus
diversilineata, Eulithis
Diversinervus elegans, parasitising, Saissetia
oleae, and biological control using, in
France 2457, 3506
Diibouti, locust control in 5898 Djibouti, locust control in 5898 DNA (see Deoxyribonucleic acids) DNBP (see Dinoseb) DNC (see DNOC) DNOC (2-methyl-4,6-dinitrophenol) against with oil emulsion, against, Dysaphis plantaginea, on apple 5606

DNPP (see Dinoprop)

Dociostaurus maroccanus
in USSR 2755
outbreak centres of 2755 Dock (see Rumex) 2,4-Dodecadienethioic acid, 11-methoxy (see Triprene)
2,4-Dodecadienoic acid, 11-chloro-3,7,11-

Disulfoton contd.

```
against contd.
                                                                                                                                                                 trimethyl-
                                                                                                                                                               ethyl ester, (2E,4E)-
                                                                                                                                                                      against, Choristoneura occidentalis
                                                                                                                                                                                5154
                                                                                                                                                                      in Choristoneura occidentalis, effects on
                                                                                                                                                      reproduction of 5155

2,4-Dodecadienoic acid, 10-methoxy-3,7,11-
                                                                                                                                                                 trimethyl-
                                                                                                                                                             ethyl ester, in Diatraea grandiosella, effects on diapause of 2216 ethyl ester, (2E,4E)-against, Choristoneura occidentalis
                                                                                                                                                                               5154
                                                                                                                                                                      in Choristoneura occidentalis, effects on
                                                                                                                                                      reproduction of 5155

2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, (2E,4E)-(see Methoprene)
                                                                                                                                                       2,4-Dodecadienoic acid, 3,7,11-trimethylethyl ester, (2E,4E)- (see Hydroprene) 2-propynyl ester, (2E,4E)- (see
                                                                                                                                                                          Kinoprene)
                                                                                                                                                      2,6-Dodecadienoic acid, 11-methoxy-3,7-dimethyl-, methyl ester, against, Tenebrio molitor 1715
5,7-Dodecadien-1-ol, Dendrolimus spectabilis sex pheromone 5158
8,10-Dodecadien-1-ol
       Nilaparvata lugens, on rice 916
Nilaparvata lugens, on rice 3958
Pempherulus affinis, on cotton 2537
pests of tobacco 4609
Thrips tabaci, on cotton 2038
                                                                                                                                                              (8E, 10E)-
                                                                                                                                                                     Cydia pomonella responses to,
environmental regulation of 1799
                                                                                                                                                                      mating disrupter for, Cydia pomonella 392, 6057
in rice, not affecting germination 3905 in tobacco plantations, effects on predatory insects of 4609, 4934, 6261 resistance to, in, Therioaphis trifolii, in New South Wales 4541
                                                                                                                                                       acetate, (8E, 10E)-, mating disrupter for, Cydia pomonella 392

1-Dodecanamine, with pyrithione sodium,
                                                                                                                                                                  for destroying bacteria in insect virus preparations 2110
                                                                                                                                                                   preparations
                                                                                                                                                        1-Dodecanol
                                                                                                                                                              Cydia molesta responses to 3262 with (Z)-8-dodecen-1-ol, (E)-8-dodecenyl acetate, and (Z)-8-dodecenyl acetate, Cydia molesta sex pheromone 1221 with (E)-8-dodecenyl acetate, and (Z)-8-dodecenyl acetate, and (Z)-8-dodece
                                                                                                                                                                         dodecenyl acetate
                                                                                                                                                                       attractant for
                                                                                                                                                                              Archips xylosteanus 3235
Cnephasia stephensiana 3
                                                                                                                                                                              Cydia funebrana 3235
C. molesta 3235
                                                                                                                                                                              Epiblema scutellana 3235
                                                                                                                                                                              Pammene suspectana 3235
                                                                                                                                                        1-Dodecanol, 10-methyl-
                                                                                                                                                                      Adoxophyes orana sex-pheromone
component 739
Adoxophyes sex-pheromone component
1730
                                                                                                                                                                       with (Z)-9-tetradecenyl acetate, (E)-11-
                                                                                                                                                       tetradecenyl acetate, (B)-11-
tetradecenyl acetate, and (Z)-11-
tetradecenyl acetate, attractant for,
Adoxophyes orana 739
1,3,6,10-Dodecatetraene, 7-ethyl-3,11-
                                                                                                                                                        dimethyl-, in Acromyrmex octospinosus
Dufour's gland secretion 4235
1,6,10-Dodecatriene, 7,11-dimethyl-3-
                                                                                                                                                                   methylene-
                                                                                                                                                               (E)
                                                                                                                                                                      Acyrthosiphon pisum escape responses
to 6110
                                                                                                                                                       Myzus persicae alarm pheromone, use in control of 5654

2,6,10-Dodecatriene, 1-methoxy-3,7,11-trimethyl-
       Aphis pomi, on apple 6467
pests of apple 3469
Quadraspidiotus perniciosus, on fruit
trees 375
                                                                                                                                                               in Dysdercus cingulatus
effects on embryo of 4164
                                                                                                                                                                       effects on neurosecretory system of
                                                                                                                                                                                 3719
                                                                                                                                                       effects on spermatogenesis of 1808
2,6,10-Dodecatrienoic acid, 3,7,11-trimethyl-
                                                                                                                                                               in Schistocerca gregaria, stimulation of JH
synthesis by 1811
methyl ester, in Kalotermes flavicollis,
                                                                                                                                                               effects on oviposition of 721 methyl ester, (2E,6E)-, in insects, conversion to JH-III of 1716
    3,7,11-trimethyl-, S-ethyl ester, (2E,4E)-
                                                                                                                                                        2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-
   trimethyl-, ethyl ester, (2E,4E)-, against, Aphis gossypii 2645
                                                                                                                                                                   (farnesol)
                                                                                                                                                               in Beauveria bassiana, no effects from
```

3720

```
2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-
                                                                                              8-Dodecen-1-ol contd.
                                                                                                                                                                                             Dolichovespula saxonica nipponica
                                                                                                   acetate, (Z)- contd.
with (Z)-8-dodecen-1-oi, and (E)-8-
                                                                                                                                                                                                 in Japan 99
       contd.
     in Nomuraea rileyi, inhibiting growth
                                                                                                                                                                                                  queens of, maintenance of two nests by
           3720
                                                                                                              dodecenyl acetate, Cydia molesta
     in Tritirachium dependens, no effects from
                                                                                                              responses to 3262
                                                                                                                                                                                              dolosus, Horismenus
           3720
                                                                                                        with (E)-8-dodecenyl acetate
                                                                                                                                                                                             Dolycoris baccarum
9-Dodecenal, (Z)-, attractant for,
Oidaematophorus monodactylus 5275
                                                                                                            attractant for
                                                                                                                                                                                                 in Bulgaria 6558
                                                                                                                Cydia aurana 3235
C. funebrana 3235
C. molesta 3235
C. tenebrosana 3235
                                                                                                                                                                                                 in Greece 3367, 5520 in India 798
2-Dodecenoic acid, 11-chloro-3,7,11-
                                                                                                                                                                                                  in Sweden 5584
       trimethyl-
                                                                                                                                                                                             on strawberry, in Sweden 5584
on sunflower, damage caused by
Dolycoris indicus, in India 798
     ethyl ester
                                                                                                                Enarmonia formosana 3
Epiblema foenella 3235
E. scutellana 3235
Pammene suspectana 3.
                                                                                                                                                                                                                                                                  6558
         in Prorhinotermes simplex, inducing
                soldier caste formation 5001
                                                                                                                                                                                             Dolycoris numidicus
         in Reticulitermes santonensis, inducing
                                                                                                                                                                                                 in Morocco 3370
               soldier caste formation 5001
                                                                                                            mating disrupter for, Cydia molesta
                                                                                                                                                                                             parasitised by, Ooencyrtus spp. 3370 Domestic animals
2-Dodecenoic acid, 7,11-dichloro-3,7,11-
trimethyl-, methyl ester, in Lygaeus
kalmii, effects of 1163
                                                                                                                  6461
                                                                                                                                                                                             arthropod pests of
in Canada 2792
in Indiana 2850
domestica, Musca
domestica, Thermobia
                                                                                               9-Dodecen-1-ol
                                                                                                   (E)-, in Rhyacionia subtropica sex-
11-Dodecen-1-ol
                                                                                                         pheromone gland 4618
     with (Z)-9-dodecenyl acetate, attractant
                                                                                                    acetate, (E)-
           for, Eupoecilia ambiguella 3988
                                                                                                       attractant for
    acetate, with (Z)-9-dodecenyl acetate, and (Z)-11-tetradecenyl acetate, Homona
                                                                                                            Rhyacionia zozana 536
R. subtropica 4618
                                                                                                                                                                                             domesticum, Trypodendron (see Xyloterus
                                                                                                                                                                                            domesticus)
domesticus, Acheta (Gryllus)
domesticus, Glycyphagus
domesticus, Gryllus (see Acheta domesticus)
domesticus, Caryllus (see Acheta domesticus)
domesticus, Xyloterus (Trypodendron)
Dominica, Scarabaeoidea in 1308
dominica, Rhyzopertha
DOPA (see Levodopa)
Dopamine (4-(2-aminoethyl)-1,2-
benzenediol)
in Manduca sexta 751
                                                                                                                                                                                                    domesticus)
           magnanima sex pheromone 1222
                                                                                                            Zeiraphera diniana 4108
5-Dodecen-1-ol
                                                                                                        Euxoa tristicula electroantennogram
                                                                                                       responses to 686 inhibitor of Eupoecilia ambiguella response to sex pheromone 3989
     acetate, (Z)
        mating disrupter for
Agrotis venerabilis 4716
Autographa californica 6
Euxoa tristicula 686
                                                                                                       Rhyacionia subtropica sex-pheromone component 4618 with (Z)-9-dodecenyl acetate attractant for, Eucosma sonomana
7-Dodecen-1-ol
    (Z)-
         mating disrupter for, Agrotis venerabilis
                                                                                                                  536
                                                                                                                                                                                                  in Manduca sexta 751
                                                                                                                                                                                            in Manduca sexta /51
in Mythimna separata, not stimulating
melanisation 1219
Dopamine, N-acetyl- (see Acetamide, N-[2-
(3,4-dihydroxyphenyl)ethyl]-)
Doralis fabae (see Aphis fabae)
Doratopteryx plumigera
attractants for 688
in South Africa 689
               4716
                                                                                                            mating disrupter for, Eucosma
sonomana 6593, 6594
         with looplure, attractant for,

Autographa californica 632
with looplure, and (Z)-5-decenyl
                                                                                                   acetate, (Z)-
                                                                                                       attractant for, Eupoecilia ambiguella
               acetate, attractant for, Euxoa
albipennis 4716
acetate, (Z)- (see Looplure)
8-Dodecen-1-ol
                                                                                                        Euxoa tristicula electroantennogram
                                                                                                       responses to 686 mating disrupter for, Autographa
                                                                                                                                                                                                  in South Africa 688
                                                                                                              californica 632
                                                                                                                                                                                             Doratura stylatus
in USA 347
         with 1-dodecanol, (E)-8-dodecenyl acetate, and (Z)-8-dodecenyl acetate
                                                                                                        with 11-dodecen-1-ol, attractant for,
                                                                                                       Eupoecilia ambiguella 3988 with (E)-9-dodecenyl acetate
                                                                                                                                                                                                  in grassland
    with (E)-8-dodecenyl acetate, and (Z)-8-dodecenyl acetate, and (Z)-8-dodecenyl acetate, and (Z)-8-dodecenyl acetate, (E)-with 1-dodecanol, and (Z)-8-dodecenyl acetate, (E)-with 1-dodecanol, and (Z)-8-dodecenyl acetate.
                                                                                                                                                                                                      effects of fertilizers on 347
                                                                                                            attractant for, Eucosma sonomana 536
                                                                                                                                                                                                      effects of insecticides on 347
                                                                                                                                                                                             dorecinica, Craspedolepta
                                                                                                                                                                                            dorsale, Agonum
dorsale, Praon
dorsalis, Acarapis
dorsalis, Dacus
dorsalis, Dacus
dorsalis, Recilia
dorsalis, Recilia
dorsalis, Recilia
dorsalis, Scirtothrips
dorsatus, Myllocerus
Doryctinae, venom apparatus in 2672
Doryctobracon crawfordi
in Mexico 3356
parasitising. Anastrepha ludens. in M
                                                                                                      mating disrupter for, Eucosma sonomana 6593, 6594
with 11-dodecenyl acetate, and (Z)-11-
tetradecenyl acetate, Homona magnanima sex pheromone 1222
with dodecyl acetate
attractant for
               acetate
             attractant for
                 Archips xylosteanus 3235
Cnephasia stephensiana 3:
Cydia funebrana 3235
C. molesta 3235
                                                                 3235
                                                                                                                Eupoecilia ambiguella
Euxoa tristicula 686
                                                                                                                                                           3988, 3989
         Epiblema scutellana 3235
Pammene suspectana 3235
with 1-dodecanol, (Z)-8-dodecen-1-ol, and (Z)-8-dodecenyl acetate, Cydia
                                                                                                       with (Z)-9-tetradecenyl acetate,
                                                                                                              attractant for, Spodoptera frugiperda
                                                                                                                                                                                                  parasitising, Anastrepha ludens, in Mexico
                                                                                                   formate, (E)-, Choristoneura fumiferana
                                                                                                                                                                                                       3356
                                                                                              not affected by 5279

10-Dodecen-3-one, 7,11-dimethyl-, against, Acdes aegypti 2644

Dodine (dodecylguanidine monoacetate) in Entomophthora obscura, toxicity of
         molesta sex pheromone 1221 with (Z)-8-dodecen-1-ol, and (Z)-8-
                                                                                                                                                                                                 population dynamics of 3356
                                                                                                                                                                                             Dorylinae
               dodecenyl acetate, Cydia molesta
                                                                                                                                                                                                  skatole in, functions of 1798
         responses to 3262 with (Z)-8-dodecenyl acetate
                                                                                                                                                                                                 zoogeography of, phylogenetic implications of 1332
                                                                                                                                                                                           implications of 1332

Dorylini, zoogeography of, phylogenetic implications of 1332

Dorylus, taxonomy of 5463
doryphorae, Doryphorophaga
Doryphorophaga doryphorae
in USA 5011
parasitising, Zygogramma tortuosa, in California 5011
Dorytomus Iapponicus
on Salix Ianata 3603
on Salix Japponum 3603
                                                                                              4136

Dog (Canis familiaris)
             attractant for
                 Cydia aurana 3235
C. funebrana 3235
C. molesta 3235
                                                                                              Dog dung
Aphodiidae in, in Bangladesh 4403
Scarabaeidae in, in Bangladesh 4403
                 C. tenebrosana 3235
Enarmonia formosana 3
Epiblema foenella 3235
E. scutellana 3235
                                                                                              Scarabaeidae in, in Bangladesh 440 dolabrata, Leptopterna dolichi, Empoasca Dolichoderus quadripunctatus, aborted trophic eggs of 4435 dolichogaster, Symplesis Dolichos biflorus
                                                               3235
             Pammene suspectana 3235 mating disrupter for, Cydia molesta
                                                                                                                                                                                                 on Salix lapponum 3603 taxonomy of, characters distinguishing D.
     acetate, (Z)-
                                                                                                   mung bean yellow mosaic virus in,
whitefly transmission of 6528
         attractant for
                                                                                                                                                                                                       suratus and 3603
                                                                                              Tetranychus neocaledonicus on, in Haryana 267

Dolichos lablab (see Lablab purpureus)
Dolichos sesquipedalis (see Vigna unguiculata)
             Cydia funebrana 2967
C. molesta 2967
                                                                                                                                                                                             Dorytomus suratus
                                                                                                                                                                                                 in Austria 3603
in East Germany
         with 1-dodecanol, and (E)-8-dodecenyl
               acetate
                                                                                                                                                                                                 in Poland 3603
             attractant for
                                                                                                                                                                                                 on Populus nigra
        attractant for
Archips xylosteanus 3235
Cnephasia stephensiana 3235
Cydia funebrana 3235
C molesta 3235
Epiblema scutellana 3235
Pammene suspectana 3235
with 1-dodecanol, (Z)-8-dodecen-1-ol, and (E)-8-dodecenyl acetate, Cydia molesta sex pheromone 1221
                                                                                              Dolichotetranychus floridanus
                                                                                                                                                                                                     in Éast Germany
                                                                                                                                                                                                                                         3603
                                                                                                   control of, acaricides for 2983 in Brazil 2983
                                                                                                                                                                                                     in Poland 3603
                                                                                                                                                                                            on Populus tremula, in Austria 3603
taxonomy of, characters distinguishing D.
lapponicus and 3603
dossei, Typhlodromus
Dove, mourning (see Zenaidurus macroura)
Dowco 417, against, Heliothis spp., on
cotton 3552
                                                                                              on pineapple, damage caused by 2983

Dolichovespula, in Spain 3835

Dolichovespula media media
                                                                                                   Cordyceps oxycephala in, in Japan 78 in Japan 78
                                                                                                   overwintering in 78
```

wnesi, Chrysopa	Drosophila melanogaster contd.	Drosophila silvestris
"X-3792 (see 1,4-Naphthalenedione, 2-	alcohols in, dietary utilisation of 6048	in USA (Hawaii) 4275, 4286
(acetyloxy)-3-dodecyl-)	ATP in, developmental changes in 4755	mating in 4286
aeculacephala antica	attractants for 2253	reproductive isolation in, evolution of
in USA 347, 1945	biology of 2253	4275
in grassland	book 2722	Drosophila simulans
effects of fertilizers on 347	cholinergic drugs in, toxicity of 6699	attractants for 2253
effects of insecticides on 347	chromosome rearrangements in 6147	biology of 2253
on Festuca arundinacea, in Missouri	cold tolerance in 6115	competing with, Drosophila melanogaster
1945	competing with, Drosophila simulans	4990
aeculacephala clypeata	4990	development in, effects of atmospheric
In Colombia 3940	control of, insecticides for 2636	ethanol on 5967
on rice, in Colombia 3940	courtship in 5371	enzymes in 735
pathogens of, in Colombia 3940	importance of acoustic stimuli in 2246	in Australia 3775, 4674
aeculacephala minerva, grapevine Pierce's	cricket paralysis virus in, polypeptides	in Lord Howe Island 5289
disease, causal agent in, transmission of	induced by 5844	in Spain 5385
5060	cuticle in, hardening and coloration of	in Tunisia 4990
ainage, of rice-fields, effects on	5334	in UK 597, 598
Nilaparvata lugens of 2402	development in, effects of atmospheric	in grape waste, in Victoria 4674
epana harpagula (see Palacodrepana	ethanol on 5967	in woodland, in Spain 5385
harpagula)	enzymes in 734, 735, 1796, 3259, 3278,	larval competition in 598
epanidae	5320, 6047, 6048	life-span in, effects of atmospheric ethano
in Italy 6125	ethanol in, effects of 6047	on 5967
taxonomy of 5295	eyes in, fluorescent substances in 2213	on Opuntia ficus-indica, in Tunisia 4996
epanosiphoninae, in North Korea 5402	fat-body in, protein granule formation in	parasites of, defence mechanisms against
epanosiphum, taxonomy of, hemolymph	3253	4990
proteins as characters for 1845	fecundity in	parasitised by, Cothonaspis boulardi
reyfusia todomatsui (see Adelges	effects of cholesterol on 5342	4990
todomatsui)	effects of moulting hormones on 5342	
ino inconspicua (see Palexorista	flight in 3739, 4759	population biology of 3775 reproduction in 597
inconspicua (see Falexolista	fungal extracts in, toxicity of 5234	resource utilisation in 4674
omius quadrimaculatus	genetics of, book 2722	
in Netherlands 532	imaginal disks in, effects of moulting	seasonal abundance of 5385
on Ulmus, in Netherlands 532		Drosophila subobscura
on Ulmus, in Netherlands 552	hormones on 3278 in Australia 3775, 4674	cold tolerance in 6115
		in Spain 5385
control of, trap-bands for 1481, 5626	in Spain 5385	in UK 597, 598
in India 1481, 5626	in Tunisia 4990	in woodland, in Spain 5385
on Citrus, in India 5626	in UK 597, 598	larval competition in 598
on mango, in Haryana 1481	in USA 2811	reproduction in 597
osophila 5446	in grape waste, in Victoria 4674	seasonal abundance of 5385
biology of 2722	in woodland, in Spain 5385	Drosophila virilis, plant mycoplasmas in,
body temperature in, measuring of 2727	insecticide bioassay using 5817, 6215,	pathogenicity of 5836
book 2722	6702	Drosophila yakuba
ecological diversity in 2253	insecticide susceptibility in, effects of	parasites of, defence mechanisms against
enzymes in 6093	application site on 2636	3166
genetics of 2722	intraspecific competition in 598	parasitised by, Cothonaspis boulardi
hydroxyproline in, periods of sensitivity to	learning in 4830	3166
731		Drosophilidae, in India 4202
	life-span in, effects of atmospheric ethanol	
in Lord Howe Island 5289	on 5967	dryas, Dacnusa
in Lord Howe Island 5289 morphological markers for 4812	on 5967 mating in 4285	dryas, Dacnusa dryi, Tetrastichus
in Lord Howe Island 5289	on 5967	dryas, Dacnusa
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, <i>Trybliographa</i> spp., in	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and	dryas, Dacnusa dryl, Tetrastichus Dryinidae parasitising
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739	dryas, Dacnusa dryl, Tetrastichus Dryinidae parasitising
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, <i>Trybliographa</i> spp., in North Carolina 4890 preyed on by, <i>Argyope</i> spp. 2778 rosophila busckii	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in wo	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 598 reproduction in 597 seasonal abundance of 5385	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity	dryas, Dacnusa dryl, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646	dryas, Dacnuss dryl, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 royme in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D.
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 reseasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D.
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 resasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus 2175 Dryocopus pileatus, preying on,
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) muth 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 reasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight activity in, regulation during 1259	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus 2175 Dryocopus pileatus, preying on,
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) muth 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 22-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 reasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvnile hormones in, metabolism of 3279	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenins in 5005	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 598 reproduction in 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenins in 5005	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 reasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight civity in, regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 reasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogeniss in 5005 wing-beat frequency of, measuring of	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 22253	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellitera 6298
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 reseasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 598 r	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 resasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 2253 in Australia 3775 in Lord Howe Island 5289	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 DS-10, against, Varroa jacobsoni, on Apis mellifera 6298
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 2253 in Australia 3775 in Lord Howe Island 5289 in UK 597, 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development of resistance to 4799	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 DS-10, against, Varroa jacobsoni, on Apis mellifera 6298 Du Pont 1642 (see Ethanimidothioic acid,
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 resasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 larval competition in 598 larval competition in 598 larval competition in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development of resistance to 4799 parthenogenesis in 4799	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 DS-10, against, Varroa jacobsoni, on Apis mellifera 6298 Du Pont 1642 (see Ethanimidothioic acid, N-[(aminocarbonyl)oxy]-, methyl ester)
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 resasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 2253 in Australia 3775 in Lord Howe Island 5289 in UK 597, 598 larval competition in 598 population biology of 3775	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogeniss in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development of resistance to 4799 parthenogenesis in 4799 Drosophila pseudoobscura	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 Ds-10, against, Varroa jacobsoni, on Apis mellifera 6298 Du Pont 1642 (see Ethanimidothioic acid, N-[(aminocarbonyl)oxy]-, methyl ester) Du-Ter (see Fentin hydroxide)
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 seasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 2253 in Australia 3775 in Lord Howe Island 5289 in UK 597, 598 larval competition in 598 population biology of 3775 reproduction in 598 population biology of 3775 reproduction in 597	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development of resistance to 4799 parthenogenesis in 4799 Drosophila pseudoobscura eclosion in, rhythm of 2255	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Drymini, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 Ds-10, against, Varroa jacobsoni, on Apis mellifera 6298 Du Pont 1642 (see Ethanimidothioic acid, N-[(aminocarbonyl)oxy]-, methyl ester) Du-Ter (see Fentin hydroxide)
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 resasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation during 1259 in UK 597, 598 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 2253 in Australia 3775 in Lord Howe Island 5289 in UK 597, 598 larval competition in 598 reproduction biology of 3775 reproduction in 598 population biology of 3775 reproduction in 598 population biology of 3775 reproduction in 598 reproduction in 598 population biology of 3775 reproduction in 598 reproduction in 598 reproduction in 597 rosophila melanogaster	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development of resistance to 4799 Drosophila pseudoobscura eclosion in, rhythm of 2255 in Jamaica 6668	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 DS-10, against, Varroa jacobsoni, on Apis mellifera 6298 DU-Pont 1642 (see Ethanimidothioic acid, N-[(aminocarbonyl)oxy]-, methyl ester) Du-Ter (see Fentin hydroxide) DU-112546 against, Leptinotarsa decemlineata 3216
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 reseasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 larval competition in 598 larval competition in 598 larval competition in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation of 1787 flight in, height regulation during 1259 in UK 597, 598 juvenile hormones in, metabolism of 3279 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 2253 in Australia 3775 in Lord Howe Island 5289 in UK 597, 598 population biology of 3775 reproduction in 598	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogeniss in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development of resistance to 4799 Drosophila pseudoobscura eclosion in, rhythm of 2255 in Jamaica 6668 Spiroplasmataceae in, in Jamaica 6668	dryas, Dacnuss dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocosmus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 Ds-10, against, Varroa jacobsoni, on Apis mellifera 6298 Du Pont 1642 (see Ethanimidothioic acid, N-[(aminocarbonyl)oxy]-, methyl ester) Du-Ter (see Fentin hydroxide) DU-112546 against, Leptinotarsa decemlineata 3216 photodegradation of, effects of particle
in Lord Howe Island 5289 morphological markers for 4812 nucleic acids in 723 parasitised by, Trybliographa spp., in North Carolina 4890 preyed on by, Argyope spp. 2778 rosophila busckii in Spain 5385 in UK 597, 598 in woodland, in Spain 5385 larval competition in 598 reproduction in 597 resasonal abundance of 5385 rosophila funebris enzymes in 6047 ethanol in, effects of 6047 in UK 597, 598 larval competition in 598 2-propanol in, toxicity of 6047 reproduction in 597 rosophila heteroneura in USA (Hawaii) 4286 mating in 4286 rosophila hydei enzymes in 3279 flight activity in, regulation during 1259 in UK 597, 598 larval competition in 598 reproduction in 597 rosophila immigrans attractants for 2253 biology of 2253 in Australia 3775 in Lord Howe Island 5289 in UK 597, 598 larval competition in 598 reproduction biology of 3775 reproduction in 598 population biology of 3775 reproduction in 598 population biology of 3775 reproduction in 598 reproduction in 598 population biology of 3775 reproduction in 598 reproduction in 598 reproduction in 597 rosophila melanogaster	on 5967 mating in 4285 memory in 4830 mitochondrial proteins in, live weight and 4755 muscular system in 3739 mutagens in, sensitivity of male germ cells to 61 on Opuntia ficus-indica, in Tunisia 4990 parasitised by Cothonaspis boulardi 4986, 4990 Trybliographa spp. 4890, 4911 in North Carolina 2811 plant extracts in, growth regulator activity of 2646 plant mycoplasmas in, pathogenicity of 5836 population biology of 3775 preyed on by, Chrysopa rufilabris 4245 2-propanol in, toxicity of 6047 rearing of, techniques for 6702 reproduction in 597 age-related changes in 4750 role of carboxylesterase in 5320 resource utilisation in 4674 seasonal abundance of 5385 sex pheromone of 5324 song production in 3739 tubulins in, assembly of 1791 vitellogenesis in, hormonal regulation of 759 vitellogenis in 5005 wing-beat frequency of, measuring of 1846 Drosophila mercatorum evolutionary potential in 4799 insect growth regulators in, development of resistance to 4799 Drosophila pseudoobscura eclosion in, rhythm of 2255 in Jamaica 6668	dryas, Dacnusa dryi, Tetrastichus Dryinidae parasitising pests of rice, in Sarawak 2651 rice hoppers, in Thailand 911 preying on, Auchenorrhyncha 256 Dryinus, parasitising, Nilaparvata lugens, in Karnataka 3971 Dryminl, in North America 2063 Dryocoetes affaber in USA (Alaska) 5738 on Picea glauca, in Alaska 5738 Dryocoetes autographus aggregation pheromone in 2175 control of, repellents for 6597 in Canada 6597 on Pseudotsuga menziesii, in British Columbia 6597 taxonomy of, distinct from D. hectographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocoetes hectographus aggregation pheromone in 2175 taxonomy of, distinct from D. autographus 2175 Dryocopus pileatus, preying on, Dendroctonus frontalis, in Texas 2561 Dryocomus kuriphilus in Japan 3572, 5736 on Castanea crenata, in Kyushu 3572 parasitised by, Chalcidoidea, in Japan 5736 parasitism of, evaluating of 3572 DS-2, against, Varroa jacobsoni, on Apis mellifera 6298 DS-10, against, Varroa jacobsoni, on Apis mellifera 6298 DU-Pont 1642 (see Ethanimidothioic acid, N-[(aminocarbonyl)oxy]-, methyl ester) Du-Ter (see Fentin hydroxide) DU-112546 against, Leptinotarsa decemlineata 3216

```
dubitans, Chrysopa
                                                                                            Dysaphis plantaginea contd.
                                                                                                                                                                                         Dysmicoccus neobrevipes
dubius, Pimplopterus
                                                                                                 on apple
in Italy 5606
                                                                                                                                                                                              distribution of 1035
dubius, Thanasimus
ducens, Feltia
                                                                                                                                                                                              food-plants of
in USA 1035
                                                                                                                                                                                                                           1035
                                                                                                     in Nova Scotia 1977
in UK 5604
                                                                                                                                                                                         on Furcraea, in Florida 1035
tended by, Pheidole megacephala 5264
E-293 (see 3(2H)-Isoxazolone, 2-
dudleyi, Cryptotermes
Dufouriellus ater
                                                                                                     in Virginia 4919
                                                                                                 on Plantago, in Italy 5606
    in Nigeria 6646
                                                                                                                                                                                         E-293 (see 3(2H)-ISOXAZOIONE, 2-
[(dimethylamino)carbonyl]-)
E-357 (see Phosphorodithioic acid, S-[(4-
chloro-5-methyl-3-oxo-2(3H)-
isoxazolyl)methyl Q, O-diethyl ester)
E 605 (see Parathion)
Eacles imperialis magnifica (see E.
magnifica)
Facles magnifica
    in cacao beans, in Nigeria 6646
                                                                                                 preyed on by
    phosphine in, toxicity of 6646
                                                                                                      Aphidoletes aphidimyza 3465
Araneae 4919
Dulcitol (see Galactitol)
dumetana, Pandemis
                                                                                             Dysaphis seselii
                                                                                                 sp. nov., description of 5182 in USSR 5182
Dung
     Aphodiidae in, in Bangladesh 4403
                                                                                                 on Crataegus, in Crimea 5182
on Seseli dichotomum, in Crimea
    Coleoptera in, in Egypt 4475

Onitis spp. in, in Ethiopian region 3'
Scarabaeidae in, in Bangladesh 4403
                                                                                                                                                                                          Eacles magnifica
biology of 3054
in Brazil 3054
                                                                                             Dyscinetus morator
                                                                                                 flight activity in, relation of coloration
and 2184
in USA 2184
duodecimpunctata, Crioceris
duplana, Rhyacionia
duplex, Pseudaonidia
                                                                                                                                                                                              on coffee, development of 3054 parasitised by, Belvosia bicincta, in Brazi
                                                                                             Dyscinetus trachypygus (see D. morator) dyscrita, Persectania
                                                                                                                                                                                                     3054
Dursban (see Chlorpyrifos)
                                                                                                                                                                                          Earias
                                                                                             ayscrin, revsectania
Dysdercus
on Vigna radiata, in Sarawak 436
preyed on by, Phonoctonus spp. 6566
Dysdercus binaculatus
in Costa Rica 113, 6099
in Panama 113
life tables for 113
Dutch elm disease (see also Ceratocystis
                                                                                                                                                                                              control of, insecticides for 1492, 4017,
      ulmi)
                                                                                                                                                                                                     5126
    in Kansas 5209
review 3087
                                                                                                                                                                                              on cotton, in Tamil Nadu 3558, 5126
                                                                                                                                                                                         on okra
in Karnataka 1492
in Uttar Pradesh 4017
Earias biplaga
attractants for 2200
control of
Duter (see Fentin hydroxide)
dux, Sarcophaga (see S. misera)
dux, Tropidacris
Dwellings
Anobiidae in, in West Germany 31
ant control in, insecticides for 826
arthropod pests in
in Canada 2792
in Netherlands 816
in Tasmania 5416
                                                                                                 on Sterculia apetala, in Central America
                                                                                                                                                                                              evaluating of 222, 3816
insecticides for 222, 3816
in Egypt 222, 3816
in Ghana 2552
in Malawi 2200
                                                                                                 reproduction in, gene-dependent variation
                                                                                                       in 6099
                                                                                             Dysdercus cardinalis
group effects in 1825
                                                                                                  population density as affecting 1825
    Attagenus woodroffei in, in Scandinavia
                                                                                             Dysdercus cingulatus
antibiotics in, effects of 3190
                                                                                                                                                                                              on cacao, in Ghana
                                                                                                                                                                                              on cotton, in Egypt 222
parasites of, in Ghana 2552
     Cinara confinis in, in Netherlands 533
                                                                                                 control of
     Formicidae in, in Bermuda 3837
                                                                                                      growth regulators for insecticides for 859
                                                                                                                                                                                          Earias fabia (see E. vittella)
Earias insulana
                                                                                                                                               2644
     insect pests in
    changes in status of 3334
in Northern Ireland 4184
Lepidoptera in, in Norway 4110
Lepisma saccharina in, in Bermuda 3837
                                                                                                 development in, effects of food-plant on
4597
                                                                                                                                                                                              attractants for 4061
                                                                                                                                                                                              control of
                                                                                                                                                                                                  growth regulators for 227
insecticide-pathogen mixtures for 438
insecticides for 227, 414, 2543, 4383,
4384, 5649
                                                                                                  embryo of, effects of growth regulators on
                                                                                                        4164
    Monomorium pharaonis in
                                                                                                    nzymes in 2688
        in central Europe 120
in Poland 827
                                                                                                  fecundity in, effects of food-plant on
                                                                                                                                                                                              non-target effects of 4384
hemolymph in 4372
in Egypt 227, 5129, 5722
in India 2464, 2543, 5649
in Iraq 4384
in Israel 4061
                                                                                                        4597
    Nymphula spp. in, in Uttar Pradesh 2254
                                                                                                 fertility in, effects of food-plant on 4597
flight muscles in, histolysis of 3273
kinoprene in, effects on flight muscles of
3273
                                                                                                                                                                    4597
    Polistes spp. in, in Texas 4448
Ptinidae in, in West Germany 3107
Ptinus sexpunctatus in, in England 2090
Tapinoma melanocephalum in, in
Manitoba 4428
termite control in 4463
                                                                                                 methoprene in, effects of 1718
neem extracts in, growth regulator activity
of 4712
                                                                                                                                                                                              on cotton
development of infestation with 5129
in Delhi 2543
in Egypt 227, 5722
in Israel 4061
                                                                                                 neurosecretory system in, effects of insect
growth regulators on 3719
spermatogenesis in, hormonal regulation
of 1808
spin-labelled juvenoids in, morphogenetic
effects of 5989
     Thaumatomyia notata in, in France 828
Thylodrias contractus in 5799
dyari, Diatraea
dybowskyi, Dinorhynchus
                                                                                                                                                                                              on okra
                                                                                                                                                                                              in Maharashtra 5649
varietal preferences of 2464
sex pheromone of, identity of
Dyera costulata (wood)
                                                                                             Dysdercus fasciatus
     Coptotermes acinaciformis in 4129
                                                                                                 feeding behaviour in 1677
feeding in, role of watery saliva in 6104
     Heterobostrychus aequalis in development of 3676
                                                                                                                                                                                           Earias vernana, in Italy 6125
                                                                                                                                                                                          Earias vittella
                                                                                             in Nigeria 6575
in cacao plantations, in Nigeria 6575
Dysdercus intermedius, scent in, components
     imported into Queensland 36
Nasutitermes exitiosus in 4129
                                                                                                                                                                                              control of, insecticides for 414, 2543,
                                                                                                                                                                                                     5649
                                                                                                                                                                                              enzymes in 1794
in India 2464, 2543, 2815, 5649
in Thailand 2539
    pest control in, wood preservatives for
           4129
                                                                                                   of 2224
Dyfonate (see Fonofos)
Dylox (see Trichlorphon)
                                                                                             Dysdercus koenigii
apholate in, effects on hemocytes of 4819
                                                                                                                                                                                              on cotton
                                                                                                                                                                                                  effects of gossypol on 5716
in Delhi 2543
in Karnataka 2815
in Thailand 2539
Dynamic models, systems analysis and
                                                                                                 control of
                                                                                                 antifeedants for 3878
growth regulators for
insecticides for 3878
fertility in 4279
       1830
Dynastinae, horn functions in 2748
Dysaphis anthrisci
in USSR 1765
                                                                                                                                                3233
                                                                                                                                                                                              on okra
                                                                                                 glycogen in, reserves of 4266
hydroprene in, effects of 3233
in India 1365
insecticides in, effects on lipids in
neurosecretory system of 5976
neurosecretory system in 5976
on Abutilon indicum, in Maharashtra
     on Anthriscus, in Lithuania 1765
parasitised by, Adialytus balticus, in
Lithuania 1765
                                                                                                                                                                                                  in Karnataka 2815
in Maharashtra 5649
                                                                                                                                                                                              varietal preferences of 2464
oviposition in 1823
parasitised by, Chelonus blackburni, in
Karnataka 2815
Dysaphis devecta
biology of 5604
control of 5604
in UK 5604
on apple, in UK 5
Dysaphis plantaginea
biology of 5604
control of 5604
                                                                                                                                                                                          Earomyia lonchaeoides
biology of 3059
in USSR 3059
on Picea, in USSR
                                                                                                 oviposition in 4279
proteins in, in hemolymph and salivary
glands 1804
                                                                                                                                                                                          Earthworm, removal of cattle dung by
                                                                                             sterility in, inheritance of 5354

Dysdercus similis
        insecticides for
                                                                                                                                                                                                1944
    timing of 5606
in Canada 1977
in Italy 209, 5606
in Poland 3465
in UK 5604
in USA 4919
                                                                                                                                                                                         Earwig (see Forficulina)
ebell, Dioryctria
E.C. 1.1.1.1 (see Dehydrogenase, alcohol)
E.C. 1.1.1.14 (see Dehydrogenase, L-iditol)
E.C. 1.1.1.27 (see Dehydrogenase, lactate)
E.C. 1.1.1.39 (see Dehydrogenase, malate (decarboxylating))
                                                                                                 control of, growth regulators for 3234
precocenes in, effects on reproduction of
3234
                                                                                             Dysdercus voelkeri
in Ghana 2730
     life history of 5606
                                                                                                 survival during food shortage of 2730
```

ojeci muex		965
C. 1.1.3.4 (see Oxidase, glucose) C. 1.4.1.2 (see Dehydrogenase, glutamate)	Ecdytolopha insiticiana contd. on Robinia pseudacacia, in Maryland	Edessa bifida
C. 1.4.3.4 (see Oxidase, monoamine)	502	control of, insecticides for 4586 in USA 4586
C. 1.7.3.3 (see Oxidase, urate)	Ecelonerini, in Japan 4187	in soyabean fields, effects of insecticides
C. 1.9.3.1 (see Oxidase, cytochrome) C. 1.11.1.6 (see Catalase)	echinatae, Conophthorus	on 4586
C. 1.11.1.7 (see Peroxidase)	echinocacti, Diaspis Echinochloa, Locusta migratoria on, in Mali	parathion-methyl in, developmental changes in susceptibility to 4586
C. 1.13.11.11 (see Oxygenase, tryptophan	3328	Edessa meditabunda
2,3-di-)	Echinochloa colonum	in Brazil 1516
C. 1.15.1.1 (see Dismutase, superoxide) C. 2.1.3.3 (see Carbamoyltransferase,	of 867	on soyabean, damage caused by 1516, 6521
ornithine)	Dicladispa armigera on, in Punjab 2375	Edessinae, taxonomy of, raised from tribal
C. 2.4.1.11 (see Glucosyltransferase,	Leptocorisa spp. on, in Papua New	rank 4725
uridine diphosphoglucose-glycogen)	Guinea 1402	edulicola, Coleotechnites edwardsi, Tarsonemus
C. 2.6.1.1 (see Aminotransferase, aspartate)	rice tungro virus in, infectivity of 3405 Echinochloa crus-galli	Edwardsiana acericola
C. 2.6.1.2 (see Aminotransferase, alanine)	Dicladispa armigera on, in Punjab 2375	sp. nov., description of 3604 in USSR 3604
C. 2.6.1.13 (see Aminotransferase,	Nilaparvata lugens on, resistance to 2399	on Acer, in Kazakhstan 3604
ornithine-keto acid) C. 2.6.1.19 (see Aminotransferase,	Echinochloa stagnina, Locusta migratoria on, development of 2321	on Salix, in Kazakhstan 3604
aminobutyrate)	Echinocnemus bipunctatus	Edwardsiana iranicola biology of 6607
C. 2.7.1.1 (see Kinase (phosphorylating),	in China 918	control of, insecticides for 6607
hexo-) C. 2.7.1.11 (see Kinase (phosphorylating),	on rice, in China 918	in USSR 6607
phosphofructo-)	Echinocnemus oryzae in India 5553	on Platanus, damage caused by 6607 on Ulmus, in USSR 6607
C. 2.7.1.38 (see Kinase (phosphorylating),	on rice	Edwardsiana rosae
phosphorylase) 2. 2.7.4.3 (see Kinase (phosphorylating),	in Asia 900 in Punjab 5553	food-plants of, seasonal changes of 191 in UK 191
adenylate)	echinus, Phytoseius	Efferia, preying on, Surattha indentella, in
C. 2.7.7.6 (see Nucleotidyltransferase,	Echium plantagineum, control of, biological	Kansas 1943
ribonucleate) C. 2.7.9.9 (see Uridylyltransferase, glucose	5945 Echthrini, in Lithuania 5390	Efferia argyrogaster foraging in 3855
1-phosphate)	Echthrodryinus krasilnikovae	in Mexico 3855
C. 3.1.1.1 (see Esterase, carboxyl)	sp. nov., description of 5598	mating in 3855
C. 3.1.1.8 (see Esterase, choline) C. 3.1.3.1 (see Phosphatase, alkaline)	in USSR 5598 parasitising, Bucculatrix crataegi, in USSR	prey of 3855 egena, Pentilia
C. 3.1.3.2 (see Phosphatase, acid)	5598	Egg yolk, diet component for, Chrysopa
C. 3.1.3.9 (see Phosphatase, glucose 6-)	Eciton, mites on, holdfast structures in 4414	carnea 169
C. 3.1.3.17 (see Phosphatase, phosphorylase)	Eciton burchellii	Eggplant (Solanum melongena) Brevipalpus phoenicis on, in Madhya
C. 3.2.1.4 (see Cellulase)	in Costa Rica 3866	Pradesh 4295
C. 3.2.1.14 (see Chitinase) C. 3.2.1.17 (see Lysozyme)	preying on, <i>Polistes erythrocephalus</i> , in Costa Rica 3866	Chrysodeixis chalcites on, in Netherlands 423
C. 3.2.1.24 (see Mannosidase, α-)	Ecitoninae, zoogeography of, phylogenetic	Diacrisia obliqua on 2737
C. 3.2.1.26 (see Fructofuranosidase, β -) C. 3.2.1.28 (see Trehalase)	implications of 1332 Ecitonini, zoogeography of, phylogenetic	not developing 1820 Epitrix hirtipennis on, in Tahiti 1833
C. 3.2.1.30 (see Acetylglucosaminidase, β -)	implications of 1332	Eriophyes melongenus on, in Egypt 1769
2 4 12 1 (and Dimentidade	eckerleini, Elasmucha	Euzophera perticella on, damage caused
C. 3.4.13.1 (see Dipeptidase, glycylglycine)	Eclipta alba (see E. erecta) Eclipta erecta, insecticidal activity of	by 5706 Henosepilachna vigintioctopunctata on
C. 3.4.13.2 (see Dipeptidase,	extracts of 3944, 5510	development of 4044
glycylleucine) 2. 3.4.13.8 (see Dipeptidase, prolyl)	Ecosystems, model 6135, 6136 Ecphylus silesiacus	in Karnataka 3017 varietal preferences of 5116
C. 3.4.13.9 (see Dipeptidase, proline)	biology of 5397	insect pests of, in Assam 4142
C. 3.5.3.1 (see Arginase)	in USSR 5397	insecticides in, persistence of 5707 Leucinodes orbonalis on
C. 3.6.1.3 (see Phosphatase, adenosine tri-)	in Yugoslavia 3568 parasitising	in Gujarat 1538
C. 4.1.2.7 (see Aldolase, fructose	Scolytidae, in Lithuania 5397	in Haryana 5705
diphosphate) C. 4.3.2.1 (see Lyase, arginosuccinate)	Scolytus spp., in Yugoslavia 3568 Ecthrodelphax fairchildi	in West Bengal 4052 Luperomorpha bombayensis on, damage
C. 4.6.1.1 (see Cyclase, adenylate)	in India 886	caused by 3032
C. 5.3.1.9 (see Isomerase, glucose	parasitising	Macrosiphum euphorbiae on, in France
phosphate) 6. 6.3.4.5 (see Synthetase,	Nephotettix nigropictus, in Karnataka 886	2032 Megalocypha spp. on, in Kerala 2031
arginosuccinate)	Nilaparvata lugens, in Karnataka 886	Myzus persicae on
C. 6.4.1.2 (see Carboxylase, acetyl coenzyme A)	Ectoedemia argentipedella biology of 2067	in France 2032 in Romania 5700
acanthothrips sanguineus	in Netherlands 2067	Otiorhynchus cribricollis on, in Italy 992
n India 5468	in West Germany 2746	pest control on
oreyed on by, Anthocoridae, in India 5468	on Betula in Netherlands 2067	biological 6691 companion crops for 3512
ballium elaterium, Epilachna	in West Germany 2746	tetranactin for 6714
chrysomelina on, in Sicily 5307 Ecdysone (see Cholest-7-en-6-one,	Ectomyelois ceratoniae diapause in 3617	Saissetia oleae on, in Turkey 6493 Spodoptera litura on, lipid utilisation by
2,3,14,22,25-pentahydroxy-,	in Algeria 706	52
$(2\beta,3\beta,5\beta,22R)$ -)	in Italy 6459	Tetranychus cinnabarinus on, in Haryana 267
Ecdysone, 20,26-dihydroxy- (see Cholest-7-en-6-one, 2,3,14,20,22,25,26-	in Norway 4111 in stored products, imported into UK	T. neocaledonicus on, in Haryana 267
heptahydroxy-, $(2\beta, 3\beta, 5\beta, 22R)$ -)	3658	Thrips tabaci on, in Netherlands 202
Ecdysone, 20-hydroxy- (see Cholest-7-en-	on carob 706 on date palm 706	Trialeurodes vaporariorum on development of 196, 197, 198
6-one, 2,3,14,20,22,25-hexahydroxy-, (2β,3β,5β,22R)-)	on fig 706	feeding preferences of 195
Ecdysone (see Cholest-7-en-6-one,	on orange 706	in Netherlands 193
2,3,14,20,22,25-hexahydroxy-, (2\beta,3\beta,5\beta,22R)-)	photoperiodism in 3617 taxonomy of, Ectomyelois phoenicis as	parasitism of 199 Urentius sentis on, damage caused by
lysones (see Moulting hormones)	synonym of 706	1537
lysterone (see Cholest-7-en-6-one,	Ectomyelois phoenicis, taxonomy of, synonym of E. ceratoniae 706	Eggplant little leaf disease, causal agent, in, Hishimonus phycitis, transmission of
2,3,14,20,22,25-hexahydroxy-, $(2\beta,3\beta,5\beta,22R)$ -)	Ectropis bistortata	474
dytolopha insiticiana	in West Germany 509	Eggplant (stored fruit), pest control in, fumigants for 1615
n USA 502 arval development in 502	parasites of, in West Germany 509 edentula, Granida	egregia, Genyodonta flavomaculata

Egypt	Egypt contd.	Elasmucha antennata contd.
Aculops lycopersici in	Spodoptera littoralis in contd.	distribution of 4095
natural enemies of 4596	on <i>Trifolium</i> 3822, 5581	in Turkey 4095
on tomato 4596	sugar-cane plantations in, predatory	on Alnus, in Turkey 4095
Agrotis ipsilon in 4332, 5721	arthropods in 4356	on apple, in Turkey 4095
on Trifolium 933	Tetranychus cinnabarinus in, on cotton	on apricot, in Turkey 4095
A. spinifera in 5721	2535, 3819	on Crataegus, in Turkey 4095
Aonidiella aurantii in, on Citrus 4336,	T. urticae in	on Platanus orientalis, in Turkey 40
4337, 4338, 4402	natural enemies of 2048	taxonomy of 4095
Aphidoidea in, on sugar-beet 2489	on Citrus 976, 977	
		Elasmucha eckerleini cypria
Aphis craccivora in, on cotton 4339	on cotton 2535	biology of 4095
A. gossypii in, on cotton 3819, 4339	on peach 971	descriptions of 4095
Asterolecanium pustulans in, on fig 4400	Thrips tabaci in, on cotton 3819	distribution of 4095
Bemisia tabaci in, on cotton 3819	tomato in, insect pests of 2500	in Turkey 4095
Brevipalpus californicus in	Eichhornia azurea, Acigona infusella on, in	on Platanus orientalis, in Turkey 40
on Citrus 978, 983	Argentina 5507	taxonomy of 4095
on guava 989	Eichhornia crassipes	Elasmucha grisea
B. pulcher in, on apple 952, 953	Acigona infusella on, in Argentina 5507	alarm pheromone in 2058
Chilo agamemnon in, on sugar-cane	arthropod enemies of, in Mexico 1667	biology of 4095
4349	biological control of 2155, 4491, 5944	defensive secretion in 2058
Cicadellidae in	review 274	descriptions of 4095
in rice-fields 3394	Chironomus spp. on, in Mexico 1665	distribution of 4095
on rice 889	Hydrophilidae on, in Mexico 1665	in Turkey 4095
Cixiidae in	natural enemies of, review 274	in West Germany 2058
in rice-fields 3394	Tetranychus spp. on 4410	on Betula, in West Germany 2058
on rice 889	in Mexico 1665	on hazel, in Turkey 4095
clover in, insects associated with 4355	11-Eicosen-1-ol, acetate, (Z)-, in Linaeidea	on mulberry, in Turkey 4095
Coleoptera in, in dung 4475	aenea defensive secretion 4767	on Platanus orientalis, in Turkey 40
cotton in, pest control on 3816	7-Eicosen-11-one	parental care in 2058
Cynara cardunculus in, insect pests of	(Z)-	taxonomy of 4095
4350	attractant for, Carposina niponensis	trail pheromone in 2058
date palm in, insect pests of 2422, 2423,	6458	Elasmus
2424, 2425	dispensers for 6458	in rice-fields, effects of insecticides or
Delphacidae in	with (Z)-7-nonadecen-11-one, attractant	6411
in rice-fields 3394	for, Carposina niponensis 6458	parasitising
on rice 889	Ekalux (see Quinalphos)	Caloptilia theivora, in Japan 3056
dried medicinal plants in, insect pests of	Ekamet (see Etrimfos)	Nacoleia octasema, in Queensland
2607	Ekatox (see Parathion)	2460
Earias biplaga in, on cotton 222	ekebladella, Tischeria	Elasmus zehntneri, phorate in, toxicity
E. insulana in, on cotton 227, 5129,	El Salvador	2357
5722	Apion candyae in, on Erythrina	Elateridae
Eriophyes imperata in, on Imperata 1769	berteroana 285	control of
E. melongenus in, on eggplant 1769	Ceratitis capitata in 4563	cultural 2891
Eupalopsellidae in 1894	Dendroctonus spp. in, on Pinus 5174	insecticides for 1554, 2359, 2867,
Eutetranychus orientalis in, on Citrus	forest pests in 5172	2891, 3880, 5523, 6712
2450	Geococcus coffeae in, on coffee 1055	in USSR 11
grain crops in, arthropod pests of 3371	Hypsipyla grandella in, on Cedrela 5174	in forest soils, effects of clearing on
Gryllotalpa gryllotalpa in, on cotton	Ips spp. in, on Pinus 5174	in pine forests, in New Zealand 487
1043	pesticide use in 4948	in urban areas, in Poland 802
Gymnoscelis rufifasciata in	Pinus spp. in, insect pests of 5167	in woodland
natural enemies of 4350	Rhizoecus nemoralis in, on coffee 1055	in Indiana 3302
on Cynara cardunculus 4351	EL-494 (see Benzamide, N-[[[5-(4-	in Poland 802
Hemiberlesia lataniae in, on fig 4400	bromophenyl)-6-methyl-2-	on grain crops
Jacobiasca lybica in, on cotton 3819	pyrazinyl]amino]carbonyl]-2,6-dichloro-)	damage caused by 6350
Javesella pellucida in, on wheat 870	Elachertus isadas	in Byelorussia 2867
leguminous crops in, arthropod pests of	in UK 5157	on maize, in West Germany 2891
4357, 4358	parasitising, Rhyacionia duplana, in	on rape, in Poland 2469
Lepidosaphes beckii in, on Citrus 4338	Scotland 5157	on sugar-cane, in Queensland 3880
Lobesia botrana in, on grapevine 4348,	Elachiptera cornuta	on tobacco, in Moldavia 1554
4399	in Poland 2893	on wheat, in Yugoslavia 2869
Meenoplidae in, in rice-fields 3394	on maize, in Poland 2893	phylogeny of 2655
Miridae in, on sugar-beet 2489	elacaphilus, Chelonus	traps for 4875
Neophyllobiidae in 830 Nezara viridula in	elacidis, Coelacnomenodera	Elaterinae, in USSR 11
	Elaeis guineensis (see Oil palm)	Elaterini, in USSR 11
on Citrus 4342	Elaphrus americanus, compound eyes in	Elatobium abietinum
on cotton 4062	1227	coldhardiness in 3063, 4846
on lucerne 4062 Noctua pronuba in 5721	Elasmopalpus lignosellus	in UK 3063, 5743
	control of, insecticides for 3528	on Picea sitchensis
Oligonychus spp. in, on date palm 363 Parlatoria ziziphus in, on Citrus 4333,	feeding behaviour in, effects of tillage	in Scotland 3063
	systems on 1387	summer survival of 5743
4334 Postinophore gossymialla in an actton	in Brazil 5566	thermal acclimation in 3063
Pectinophora gossypiella in, on cotton	in Cuba 3852	Elatophilus nipponensis
222, 227, 4072, 4383, 5129, 5722	in USA 463, 1484, 3528 on groundnut	in China 567
Phyllocoptes balanites in, on Balanites aegyptiaca 393		preying on
	assessing infestations of 463	Matsucoccus matsumurae
P. pruni in, on plum 393 Phyllocoptruta citri in, on Citrus 403	damage caused by 3528, 3529 on rice, varietal preferences of 5566	and biological control using, in
Phytoptus nalepi in, on pear 1769	on soyabean, in USA 1484	Kiangsu Province 567 in Kiangsu Province 567
plant protection in 3238 Pterochloroides persicae in 5614	parasitised by Bethylidae, in Cuba 3852	Elcar (see Baculovirus heliothis)
Rhopalosiphum spp. in, on wheat 5525		Eldana, on sugar-cane, in South Africa
Schizaphis graminum in, on wheat 5525	Lixophaga diatraeae, in Cuba 3852	1373 Fldana sacabarina
Sesamia cretica in, natural enemies of	traps for 463 Elasmostethus interstinctus	Eldana saccharina
2354		biology of 693
	biology of 4095	control of
soyabean in, insect pests of 1013	descriptions of 4095	biological 1376
spices in, insect pests of 2607	distribution of 4095	insecticides for 3888
Spodoptera exigua in 4328, 4331 on maize 4327	in Turkey 4095	food-plants of 1374
	on Populus, in Turkey 4095	in Ghana 3888, 4497
S. littoralis in 486, 4326	on Vaccinium, in Turkey 4095	in Ivory Coast 693, 5287
natural enemies of 4477	taxonomy of 4095	in South Africa 1374, 1376, 1378, 1
on Citrus 976, 977 on cotton 3822, 4065, 4386	Elasmucha antennata biology of 4095	in Upper Volta 693
on sugar-beet 2489	descriptions of 4095	natural enemies of, in Upper Volta
ON DEGEN OUT ATO	Geographions of 4073	on maize, damage caused by 3888

0,000 1110011		707
lana saccharina contd.	embolicus, Telenomus	Empoasca kraemeri contd.
on sugar-cane	embryophagum, Trichogramma	in Brazil 1009
damage caused by 1382	Emdenimyia, parasitising, Lepidoptera	on Phaseolus vulgaris
in Ghana 4497	4726	development of 5664
in Ivory Coast 693	emertoni, Arctosa	in Brazil 1009
in South Africa 1374, 1376	emeryana, Myrmica	on Vigna unguiculata, development of
parasites of, in Ghana 4497	Emex australis control of, biological 5946	5664
parasitised by, Trichogrammatoidea	Microthrix inconspicuella on	traps for 1009 Empoasca lybica (see Jacobiasca lybica)
eldanae, in Ivory Coast 5287	and biological control using 4482	Empoasca meridiana (see E. decipiens)
predators of	damage caused by 4481	Empoasca onukii
effects of insecticides on 1378	Emex spinosa	biology of 3056
in South Africa 1378	control of, biological 5946	in Japan 3056
anae, Trichogrammatoidea	Microthrix inconspicuella on, development	on tea, in Japan 3056
ctellum, Homoeosoma ectric field, Tenebrio molitor pupal	of 4482	parasitised by, Anagrus spp., in Japan
development as affected by 1107	Emilia, Nysius caledoniae on, in Hawaii 4614	3056
ectron beam (see also Radiation, beta)	emma, Teleogryllus (see T. mitratus)	Empoasca pteridis
ectrophoresis	empiformis, Chamaesphecia	in Poland 3036
or distinguishing insect granulosis viruses	Empoasca	on sunflower, in Poland 3036
6671	in Malawi 24	Empoasca vitis
use in taxonomy of 4809	in Nigeria 24	in Czechoslovakia 5200 on <i>Paulownia imperialis</i> , in
ectrophoresis, disc, use in taxonomy of 1845	on cassava, in Colombia 1025	Czechoslovakia 5200
gans, Choetospila	on Citrus, in Japan 2972 on Phaseolus, resistance to 2301	Empusa caroliniana, taxonomy of,
gans, Diversinervus	traps for 2972	transferred to Entomophthora 5237
gans, Leptocorisa (see Stenocoris elegans)	Empoasca abrupta	Enaphalodes rufulus
gans, Sipha	in USA 1488	in USA 1102, 1105
gans, Stenocoris (Leptocorisa)	on cotton, not damaging terminals 3549	on Quercus
gans, Syzeuctus	on cucurbits, in California 1488	fungal decay associated with 1105
gantalis, Neoleucinodes Elemene (see Cyclohexane, 1-ethenyl-1-	Empoasca alsiosa in Spain 3505	in Ohio 1102
methyl-2,4-bis(1-methylethenyl)-)	on Citrus, in Spain 3505	traps for 1102 Enarmonia formosana
enchus, parasitising, Nilaparvata lugens, in	seasonal abundance of 3505	attractants for 3235
Karnataka 3971	Empoasca decipiens	control of
enchus tenuicornis	in Egypt 1013, 2500, 3394, 4358	insecticides for 6466
n Finland 2333	in USSR 2346	timing of 3479, 6466
n UK 2333	on beet, in Turkestan 2346	emergence in 3479
parasitising, <i>Javesella dubia</i> , in England 2333	on soyabean, in Egypt 1013 on tomato, in Egypt 2500	in Czechoslovakia 3235 in Poland 3479, 6466
enchus yasumatsui	sex ratio in 3394	on apple, in Poland 3479, 6466
n Thailand 911	Empoasca devastans (see Amrasca	Encarsia
parasitising	devastans)	in glasshouses, evaluating effects of
Nilaparvata lugens, in Thailand 911	Empoasca dolichi	pesticides on 5970
Sogatella furcifera, in Thailand 911	control of, insecticides for 4585	parasitising
phas, Balaninus (see Curculio elephas) phas, Curculio (Balaninus)	in Malawi 24 in Nigeria 4585	Aleurolobus barodensis, in Uttar Pradesh 2352
ettaria cardamomum	on Vigna unguiculata, resistance to 4585	Trialeurodes vaporariorum
Dichocrocis punctiferalis on, in Tamil	taxonomy of 24	and biological control using 1536
Nadu 283	Empoasca fabae	in Japan 6552
Sciothrips cardamomi on, in Kerala	control of	in Kyushu 3292
6343	insecticides for 3533, 6197, 6232	taxonomy of
eusine coracana	non-target effects of 3533	Aspidiotiphagus as synonym of 6024
cereal chlorotic mottle virus in, infectivity of 867	threshold for 3533, 6232 timing of 3533	Prospaltella as synonym of 6024 Encarsia formosa
Creatonotos gangis on, in Andra Pradesh	development in, effects of temperature on	acaricides in, toxicity of 676
2369	1953	aggregation indices for 3764
Plusia signata on, in Karnataka 3893	in USA 1429, 1953, 2012, 2413, 2925,	fungicides in, toxicity of 676, 6508
eusine indica	3533, 4907, 5580, 5689, 6197, 6232	host food-plants as affecting 195, 199,
cereal chlorotic mottle virus in, infectivity	on lucerne	3808
of 867 Hysteroneura setariae on, in Taiwan	assessing infestations of 1429, 2413 damage caused by 4907, 5580	host selection in 6320 in glasshouses, effects of insecticides on
3316	distribution pattern of 2413	3807
formis, Colpacampsomeris indica	effects of harvesting on 1953	insecticides in, toxicity of 201, 676, 6508
natus, Dalbulus	oviposition by 2925	oviposition in 6320
a, Dasychira grisefacta	on potato	parasitising
otti, Aulocara	in Minnesota 3533, 6232	Trialeurodes vaporariorum
iptica, Paraseiulella o, Erinnyis	resistance to 2493, 5689 on Solanum, resistance to 1528	and biological control using 195, 199, 628, 1536, 5645
n (see Ulmus)	on Solanum pampasense, resistance to	in Austria 5734
n, American (see Ulmus americana)	2493	in Irish Republic 5925
n, Chinese (see Ulmus parvifolia)	on soyabean	in Italy 5585
n, English (see Ulmus procera)	in Indiana 6197	in Japan 1133
n, Siberian (see Ulmus pumila)	varietal preferences of 2012	in Netherlands 193, 194, 3808,
ocron (see Dioxacarb)	population dynamics of 1953 sound-producing apparatus in 3736	6320 in Ohio 229
odea densa, lindane in, effects on cell membrane potentials of 5984	traps for 2413	in Scotland 4049
ngata, Baccha	Empoasca formosana	in Sweden 3764
ngata, Clavigralla	biology of 2045	pesticides in, toxicity of 4049
ngata, Notostira	control of, insecticides for 2045	rearing of, techniques for 628, 5925
ngatus, Panonychus	in Taiwan 2045	temperature as affecting 3808, 5734
a, Eurosta	on tea, in Taiwan 2045	Encarsia lutea in Israel 6567
san (see Phenthoate) tella, Ephestia	Empoasca kerri control of	parasitising, Bemisia tabaci, in Israel
vmana sulphurella	cultural 2488	6567
n UK 2918	insecticides for 1521, 1693	Encarsia silvestrii
on Holcus mollis, resource utilisation by	in India 440, 2488	sp. nov., description of 6024
2918	on Cajanus cajan, effects of intercropping	in Italy 6024
anus, Amblyseius	on 2488	parasitising, <i>Bemisia citricola</i> , in Italy 6024
arginalus, Triclistus arginata, Calpe (see Oraesia emarginata)	on Vigna radiata, in India 440 Empoasca kraemeri	Encarsia tricolor, group of 6024
arginata, Caipe (see Oraesia emarginata) arginata, Oraesia (Calpe)	biology of 5664	Enchytraeidae, in Ceutorhynchus galls on
shiontone in Soviet Central Acia 2755	flight activity in 1009	rape in Poland 2469

```
Encrateola, parasitising, Oulema lichenis, in USSR 1386
                                                                                                 Endosulfan contd.
                                                                                                                                                                                                  Endosulfan contd.
                                                                                                      against contd.
                                                                                                                                                                                                       with triazophos, antagonistic 487
Encyrtidae
                                                                                                           Pectinophora gossypiella, on cotton
                                                                                                                                                                                                       with tris(methylphenyl) phosphate,
    in Ethiopian region 4209
                                                                                                                                                                                                             antagonistic 4387
                                                                                                                 4068, 6561
    in India 4196
in Kazakhstan 5598
in Turkmenia 5598
                                                                                                           pests of okra 414
                                                                                                                                                                                                  Endria inimica
in USA 347, 1945
                                                                                                           pests of potato 3019
                                                                                                           Piezodorus guildinii 1698
                                                                                                                                                                                                      in grassland
     in forests, communities of aphids and
                                                                                                           pod borers, on Cajanus cajan 6524
                                                                                                                                                                                                           effects of fertilizers on 347
                                                                                                          Podosesia syringae, on Fraxinus 3085
Polyphagotarsonemus latus, on
Phaseolus vulgaris 1008
Pyrilla perpusilla, on sugar-cane 5515
Rhizoccus nemoralis, on coffee 1055
                                                                                                                                                                                                           effects of insecticides on 347
Encyrtus lecaniorum, parasitising, Coccus
hesperidum, and biological control using,
in Georgia (USSR) 2453
Endsphis, parasitising, Euceraphis gillettei,
in British Columbia 551
                                                                                                                                                                                                       on Festuca arundinacea, in Missouri
                                                                                                                                                                                                             1945
                                                                                                                                                                                                  Endrin ((1a\alpha, 2\beta, 2a\beta, 3\alpha, 6\alpha, 6a\beta, 7\beta, 7a\alpha)-3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a
                                                                                                           Sciothrips cardamomi, on Elettaria
                                                                                                                                                                                                         octahydro-2,7:3,6-dimethanonaphth[2,3-
                                                                                                           cardamomum 6343
Scirpophaga incertulas, on rice 5035
Endelomyia aethiops
in USSR 5396
                                                                                                                                                                                                       against
                                                                                                                                                                                                           Acalitus essigi, on blackberry 4547
Agraulis vanillae, on passion fruit
Agrotis ipsilon, on cotton 2536
A. orthogonia, on wheat 6167
    on Rosa eglanteria, in Lithuania 5396
on rose, in Lithuania 5396
                                                                                                           Scirtothrips dorsalis, on Capsicum
                                                                                                                6554
endius, Spalangia
Endomychidae, Laboulbeniales in, in Taiwan
1129
                                                                                                          Sitobion avenae, on grain crops
Smicronyx fulvus, on sunflower
                                                                                                                                                                          6259
                                                                                                          Spodoptera frugiperda 5265
S. littoralis 4387
on cotton 487
                                                                                                                                                                                                           Amsacta albistriga, on groundnut 6527
Endosulfan (6,7,8,9,10,10-hexachloro-
1,5,5a,6,9,9a-hexahydro-6,9-methano-
2,4,3-benzodioxathiepin 3-oxide)
                                                                                                                                                                                                            Anticarsia gemmatalis 672
                                                                                                          S. litura 3222
on tobacco 3050
                                                                                                                                                                                                           Antigastra catalaunalis, on sesame 4055
                                                                                                          Sylepta derogata, on cotton 2538
Syringopais temperatella, on grain crops
1389
                                                                                                                                                                                                           Aphis craccivora, on cotton 4339
A. gossypii, on cotton 4339
Atherigona soccata, on sorghum 2915
Atta bisphaerica 189
Carpomyia vesuviana 6477
Chilo partellus, on sorghum 1416, 2915, 5573
         Acalitus essigi, on blackberry 4547
Acarapis externus, on Apis mellifera
3840
         Achaea janata, on castor 5710
Amrasca biguttula
                                                                                                           Taeniothrips spp., on apple 5070
Tarsonemus pallidus, on strawberry
         on castor 5710
on cotton 5719, 6561
A. devastans, on okra 5649
                                                                                                                6450
                                                                                                           Thrips tabaci
                                                                                                              on cotton 5127
on onion 5697
                                                                                                                                                                                                           Dichocrocis punctiferalis, on castor
         Amsacta albistriga, on groundnut
                                                                                                                                                                                                                  2506
                                                                                                                                                                                                           Dicladispa armigera, on rice 6373
Eublemma amabilis 1350
                6527
                                                                                                           Uroleucon carthami
                                                                                                                                                    1712
         Aphis craccivora 1712
A. gossypii 1712
on cotton 6563
                                                                                                          Viteus vitifoliae, on grapevine 19
Zygina maculifrons, on rice 336
                                                                                                                                                                                                           Gryllotalpa gryllotalpa :
Heliothis armigera 1149
                                                                                                     in Atta laevigata, effects on respiration of 5460
              on eggplant 5707
                                                                                                                                                                                                           Mythimna unipuncta, on sorghum
                                                                                                     in Cales noacki, toxicity of 3493
in Chrysopa boninensis, toxicity of 304
in Coccinella repanda, toxicity of 6725
         Argyroploce leucaspis, on Litchi chinensis 6497
                                                                                                                                                                                                                 2915
                                                                                                                                                                                                           Ophiomyia phaseoli, on Vigna radiata
         Athalia lugens 2637
Atta bisphaerica 189
A. laevigata 5460
Bemisia tabaci, on tomato 471
                                                                                                                                                                                                      Pseudonapomyza gujaratica 6372
Pyrilla perpusilla, on sugar-cane 3879
Spodoptera exigua, on potato 3020
S. littoralis 2634, 3045, 4387, 4389
S. litura 3222
on cauliflower 2473
in cauliflower, persistence of 2473
in Coccinella undecimpunctata, toxicity of
                                                                                                     in Coccinella septempunctata, toxicity of 1712
                                                                                                     in Colpidium campylum, detecting of 6708
         Cerosterna scabrator, on grapevine
                                                                                                     in Corcyra cephalonica, effects on parasites of 2343 in cotton, effects of rain on 5719 in eggplant, persistence of 5707 in Kerria lacca, toxicity of 1350 in pea, residues of 6512 in rice, not affecting germination in soyabean, residues of 1519 in Scodorters littoralis penetration
                2428
        2428
Chilo partellus
on maize 2365
on sorghum 2916, 5573
Contarinia pseudotsugae, on
Pseudotsuga 2057
C. sorghicola, on sorghum 5574, 6428
Crocidolomia binotalis, on mustard
2221
                                                                                                                                                                                                             2634
                                                                                                                                                                                                     2634
in Dysdercus koenigii, effects on lipids in neurosecretory system of 5976
in Spodoptera littoralis
effects of selection pressure on susceptibility to 3045
penetration of cuticle by 4380
resistance to, in, Spodoptera littoralis 57
synergists for 4387
with chlordane, against, Heliothis armigera 1149
with chlordurifes
                3221
                                                                                                     in Spodoptera littoralis, penetration of cuticle by 4380
         Cysteochila ablusa, on Bauhinia 1558
Dacus cucurbitae 1500
                                                                                                      in Trichogramma brasiliensis, toxicity of
         Diacrisia obliqua
on sugar-beet 5686
                                                                                                            2343
                                                                                                     2343
in wheat fields, effects on predatory insects of 5998
resistance to, in, Heliothis armigera, in South Africa 489
synergists for 4387
with chlorpyrifos, antagonistic 487
with diffubenzuron
              on sweet potato 2496
         Dichocrocis punctiferalis, on cardamom
                                                                                                                                                                                                      armigera 114 with chlorpyrifos
                283
         Dicladispa armigera, on rice 6373, 6403
                                                                                                                                                                                                      Heliothis armigera 1149
Spodoptera littoralis 225
with DDT, against, Heliothis armigera
1149
                                                                                                                                                                                                           against
        Earias insulana, on okra 5649
E. vittella, on okra 5649
Elateridae, on grain crops 2359
Eriosoma lanigerum, on apple 5071
Eublemma amabilis 1350
Euproctis fraterna, on plum 2447
E. melania 3798
                                                                                                          against
                                                                                                               Earias insulana, on cotton 227
Pectinophora gossypiella, on cotton
227
                                                                                                                                                                                                      with dicrotophos
                                                                                                                                                                                                           against
                                                                                                              Spodoptera littoralis
on castor 4374
on cotton 4065
                                                                                                                                                                                                      Agrotis ipsilon, on cotton
Heliothis armigera 1149
Spodoptera littoralis 225
with endosulfan
                                                                                                                                                                                                                                                                   2536
         Exelastis atomosa
         Exclastis atomosa 3009
on Cajanus cajan 6525
Geococcus coffeae, on coffee 1055
                                                                                                          in cotton fields, non-target effects of
                                                                                                                4065
                                                                                                                                                                                                           against
                                                                                                                                                                                                               Anomis sabulifera, on jute 6571
Apion corchori, on jute 6571
Polyphagotarsonemus latus, on jute
6571
         Heliothis armigera
                                                                                                      with endrin
              on Cajanus cajan 6525
                                                                                                          against
              on Cicer arietinum 2021, 5679
on sunflower 6557
                                                                                                              Anomis sabulifera, on jute
                                                                                                               Apion corchori, on jute 6571
         Hellula undalis, on cabbage 5650
Helopeltis antonii, on cashew 4550
Leucinodes orbonalis, on eggplant
                                                                                                               Polyphagotarsonemus latus, on jute 6571
                                                                                                                                                                                                       with EPN, against, Heliothis armigera
                                                                                                     with mancozeb, against, pests and diseases
of cauliflower 1498
with mephosfolan, antagonistic 487
                                                                                                                                                                                                      with HCH, against, Heliothis armigera
                1538
                                                                                                                                                                                                             1149
         Lipaphis erysimi 1712
Lygus lineolaris, on strawberry 366
Maruca testulalis, on Cajanus cajan
6525
                                                                                                                                                                                                      with leptophos, against, Heliothis armigera 1149
                                                                                                    with mephosfolan, antagonistic 487 with methidathion, against, pests and diseases of cauliflower 1498 with methomyl, antagonistic 487 with monocrotophos, antagonistic 487 with oil emulsion, against, Dendroctonus micans, on Picea 1604 with phosfolan, antagonistic 487 with piperonyl butoxide, antagonistic 4387 with Thapita antagonistic 4387
                                                                                                                                                                                                      armigera 1
                                                                                                                                                                                                           against, Tribolium castaneum 3220
         Melanagromyza obtusa, on Cajanus
cajan 6525
Myllocerus discolor 3048
                                                                                                                                                                                                      antagonistic 3220
with mephosfolan, against, Heliothis
armigera 1149
with methomyl
         Mythimna unipuncta, on sorghum
                2915
                                                                                                                                                                                                          against
         Nezara viridula 1698
                                                                                                                                                                                                              Heliothis armigera 1149
Spodoptera littoralis 225
         Nilaparvata lugens, on rice 5555
                                                                                                     with Thanite, antagonistic 4387
```

bject Index		969
drin contd.	Entomophthora contd.	Entomophthora sphaerosperma contd.
with monocrotophos, against, Spodoptera	development in 1658	in contd.
littoralis 225 with parathion	in Acceptacional translation	Nilaparvata lugens, spore formation by
against	Acyrthosiphon kondoi in New South Wales 6437	5843 Thrips tabasi effects of funciaides on
Orseolia oryzae, on rice 2379	in New Zealand 5880	Thrips tabaci, effects of fungicides on 6136
Scirpophaga incertulas, on rice 2379	A. pisum, in New Zealand 5880	taxonomy of, characters distinguishing E.
with phosfolan	Aulacorthum solani, in France 5693	canadensis and 5218
against	grain aphids, not affected by fungicides	Entomophthora thaxteriana (see E.
Heliothis armigera 1149	5524	ignobilis)
Spodoptera littoralis 225	Macrosiphum euphorbiae, in France	Entomophthora thripidum
with pyrethroids, interactions of 4389 with toxaphene, against, Spodoptera	5693	sp. nov., description of 1634
littoralis 225	Myzus persicae, in France 5693	in, Thrips tabaci, in Netherlands 1634 Entomophthora virulenta, toxins of 2652
with tris(methylphenyl) phosphate,	Nephotettix nigropictus, in Karnataka 886	Entomophthoraceae
antagonistic 4387	Nilaparvata lugens, in Karnataka 886	in, Psylla pyri, effects of fungicides on
ndrosis lactella (see E. sarcitrella)	Planococcus citri, in Queensland 3510	1450
ndrosis sarcitrella in UK 4660	Psylla pyri	insect control using 626
in cheese 3116	effects of fungicides on 209	Entomophthorales, biological control using 1659
dymion, Phanaeus	in Italy 209, 6457, 6469	Entomopoxvirus
gelmanni, Ips tridens	Thrips tabaci, in Netherlands 202	in ²
nicocephalidae, feeding habits of, evolution	Entomophthora aphidis	Choristoneura fumiferana
of 2243	development in 1658	in Ontario 6633
nicospilus parasitising	in, Acyrthosiphon kondoi, in New Zealand 2042	strains of 5240 Entomoscelis americana, sugar receptors in
Anomis leona, in Ghana 2552	taxonomy of, characters distinguishing E.	2704
Eldana saccharina, in Ghana 4497	canadensis and 5218	entreriana, Zulia
Sesamia spp., in Ghana 4497	Entomophthora arrenoctona, taxonomy of,	Entypotrachelus
anomos autumnaria	synonym of E. caroliniana 5237	control of, biological 4181
biology of 1452	Entomophthora canadensis	on tea, in Kenya 4181
control of 1452 descriptions of 1452	sp. nov., description of 5218 development in 5218	enucleator, Lignyodes Enytus
in Bulgaria 1452	in, Schizolachnus piniradiatae, in Ontario	parasitised by, Mesopolobus spp., in
on apple, in Bulgaria 1452	5218	British Columbia 951
noclerus ablusus	Entomophthora caroliniana	parasitising, Eutromula pariana, in Britisl
sp. nov., description of 2171	descriptions of 5237	Columbia 951
in Mexico 2171 noclerus aethiops	in, Tipula paludosa, in Switzerland 5237 taxonomy of	Enzymes in aphids, as taxonomic characters 2195
sp. nov., description of 2171	Entomophthora arrenoctona as	isoenzymes, use as genetic markers of
in Mexico 2171	synonym of 5237	4812
noclerus irregularis	transferred from Empusa 5237	Eoeurysa flavocapitata
sp. nov., description of 2171	Entomophthora crustosa	biology of 3359
in Honduras 2171	sp. nov., description of 2070 in, <i>Malacosoma disstria</i> , in North	descriptions of 3359 in India 3359
attractants for 1571	America 2070	on sugar-cane, in West Bengal 3359
in USA 1571	Entomophthora culicis	Eotetranychus carpini
noclerus nelsoni	in	in France 2940
sp. nov., description of 2171	Phoridae, in Israel 1126	in Switzerland 2940
in Mexico 2171	Sciaridae, in Israel 1126	on grapevine, assessing infestations of 2940
noclerus nigricans sp. nov., description of 2171	Entomophthora egressa, juvenile hormones in, morphogenetic effects of 612	Eotetranychus hicoriae
in Mexico 2171	Entomophthora floridana	development in
noclerus pisinnus	anadhesive spores of 5243	effects of photoperiod on 2432
sp. nov., description of 2171	conidia of 5243	effects of temperature on 2432
in Venezuela 2171 Inoclerus reburrus	in, Oligonychus hondoensis 5243	in USA 5062
sp. nov., description of 2171	Entomophthora fumosa 3510 Entomophthora gammae, in, Plusia spp., in	on pecan, assessing infestations of 5062 Eotetranychus hirsti
in Mexico 2171	Brazil 5672	in India 4295
noclerus signifer	Entomophthora gigantea	on Ficus religiosa, in Madhya Pradesh
sp. nov., description of 2171	sp. nov., description of 5237	4295
in Costa Rica 2171	in, Tipula paludosa, in Switzerland 5237	on fig, in Madhya Pradesh 4295
in Panama 2171 Cnoclerus sphegeus	Entomophthora grylli, in, Acridoidea, in USSR 1123	Eotetranychus pomi (see E. pruni) Eotetranychus pruni
in Mexico 1649	Entomophthora ignobilis	biology of 1964
preying on, Dendroctonus spp., in Mexico	fungicides in, effects of 2165	control of, acaricides for 370, 1964
1649	in, Acyrthosiphon kondoi, in New	descriptions of 1964
Inoplops cornutus, parasitised by,	Zealand 2042	in Bulgaria 370, 1964 in China 4866
Ooencyrtus spp. 3370 nsifer, Scolytus	Entomophthora megasperma, taxonomy of, characters distinguishing E. crustosa and	on apple
Enstar (see Kinoprene)	2070	in Bulgaria 370
Entedon	Entomophthora muscae, in, Delia antiqua,	in China 4866
parasitising	effects of fungicides on 6136	on grapevine, damage caused by 370,
Apion corchori, in West Bengal 1051	Entomophthora obscura	1964 on Rosa sinensis, in China 4866
Coleophora spp., in USSR 6606 Entedon leucogramma	Acyrthosiphon pisum, pathogenicity of,	predators of, effects of pesticides on
in Yugoslavia 3568	strain differences in 1635	1964
parasitising	soil, effects of fungicides on 4136	taxonomy of 1964
Pteleobius kraatzi, in Yugoslavia 3568	Entomophthora parvispora, in, Thrips tabaci,	Eotetranychus syzygii
Scolytus spp., in Yugoslavia 3568	in Netherlands 1634	sp. nov., description of 4295 in India 4295
Enterobacter, in, Anthonomus grandis, in USA 3546	Entomophthora phytonomi	on Syzygium cumini, in Madhya Pradesh
Enterobacter aerogenes, in, Scirpophaga	Hypera postica	4295
incertulas, in Orissa 1407	in Delaware 4538	Eotetranychus uncatus
Enterobacter cloacae, in, Reticulitermes	in Michigan 4538	descriptions of 2054
flavipes, in hind-gut 4464	in Missouri 352	in India 5014 on <i>Bauhinia variegata</i>
Entobakterin (see Bacillus thuringiensis var. galleriae)	in New Jersey 4538 in Pennsylvania 4538	damage caused by 5014
Entomological collections, abbreviations for	Entomophthora sphaerosperma	development of 2054
institutions containing 2771	in	on Clerodendron siphonanthus, damage
ntomophilus, Liposcelis	Anticarsia gemmatalis, in Brazil 5672	caused by 5014
Entomophthora	Choristoneura fumiferana, assay for	Eothrips coimbatorensis
biological control using 6691	606	in India 2554

```
Eothrips coimbatorensis contd.
                                                                                           Ephestia cautella contd.
                                                                                                                                                                                       Ephydridae, on glasshouse crops, in
                                                                                                                                                                                             Denmark 782
    on Jasminum, in Delhi 2554
                                                                                                triglycerides in, effects of protective
                                                                                                     atmospheres on 2605
                                                                                                                                                                                       Epiblema cynosbatella
biology of 1065
in Canada 1065
Ephedrus cerasicola
    parasitising, Myzus persicae, and
biological control using 475, 6555
release methods for 475
                                                                                                water relations in, effects of protective
atmospheres on 2605
white mutant of 6183
                                                                                                                                                                                           on rose, in British Columbia 1065
Ephedrus lacertosus, in Mongolia 3348
                                                                                            Ephestia elutella
                                                                                                                                                                                       Epiblema foenella
                                                                                                Bacillus cereus in, in Yugoslavia 2107
B. thuringiensis in, in Yugoslavia 2107
Ephedrus nacheri
                                                                                                                                                                                           attractants for
                                                                                                                                                                                                                        3235
    in Japan 1426
                                                                                                                                                                                            in Czechoslovakia 3235
    parasitising, Acyrthosiphon kondoi, in
Japan 1426
                                                                                                biology of 5801
                                                                                                                                                                                       Epiblema scudderiana
                                                                                                                                                                                           in USA 2825
on Solidago graminifolia, in Pennsylvania
                                                                                                control of
Ephedrus persicae, in Mongolia 3348
                                                                                                    fumigants for 588, 1147, 3638, 4118
Ephedrus plagiator
                                                                                                    growth regulators for 3664 timing of 4118, 4671
                                                                                                                                                                                                 2825
    in Mongolia 3348
                                                                                                                                                                                           parasites of, in Pennsylvania 2825
    in North Korea 3347
                                                                                                descriptions of 5801
                                                                                                                                                                                       Epiblema scutellana
     parasitising, Hyperomyzus lactucae, and
                                                                                                in Austria 1756
                                                                                                                                                                                           attractants for 3235
in Czechoslovakia 3235
                                                                                               in Switzerland 4671
in UK 4660, 5801
in West Germany 588, 4118
in Yugoslavia 2107
           biological control using, in Australia
                                                                                                                                                                                       Epicauta, in India 6122
Epicauta adspersa, parasitised by,
Hyalomyodes brasiliensis 6313
ephemeraeformis, Thyridopteryx
Ephestia
    control of 3119
cultural 2424, 2425
                                                                                                in chocolate factories, in Switzerland
                                                                                                                                                                                       Epicauta albovittata
                                                                                                      4671
                                                                                                                                                                                           in Ethiopia 435
    in bakery products, damage caused by
                                                                                                in foodstuffs, damage caused by 5801 in granaries, in West Germany 4118
                                                                                                                                                                                           on Vigna radiata, in Ethiopia 435
           3119
                                                                                                                                                                                       Epicauta vittata, complex of, taxonomy of
                                                                                                in stored grain, in West Germany 58 in stored products, imported into UK
                                                                                                                                                                                             6028
    on date palm
on date palm
effects of bunch covering on 2424
effects of clean cultivation on 2425
effects of plant height on 2423
in Egypt 2422
varietal preferences of 2423

Ephestia calidella
                                                                                                                                                                                       epicharmus, Tetrastichus
Epichoristodes acerbella
biology of 501
control of
                                                                                                preyed on by, Holepyris hawaiiensis, in Americas 3847
                                                                                                reproduction in, effects of y-irradiation on
                                                                                                                                                                                                insecticides for 501
                                                                                                                                                                                           γ-irradiation for
development in
                                                                                                      2230
    in Turkey 4111
in dried figs, imported into Norway
in stored products, imported into UK
                                                                                                seasonal abundance of 4118
                                                                                                sterilisation of, y-irradiation for 2230 traps for 4671
                                                                                                                                                                                                effects of diet on 507 effects of humidity on
                                                                                           traps for 40/1

Ephestia figuiliella

control of, insecticides for 3140, 3141

genitalia in 4111

in Australia 3141

in Turkey 4111

in dried figs, imported into Norway 4

in stored products, imported into UK

3658
          3658
                                                                                                                                                                                                effects of temperature on
                                                                                                                                                                                           EPPO data sheet on 4703 food-plants of 501
Ephestia cautella
    Bacillus thuringiensis in, effects on mid-
gut of 4140
biology of 4345
control of
                                                                                                                                                                                           in France 501
                                                                                                                                                                                      on carnation, damage caused by on Gerbera, in France 501 on rose, in France 501 rearing of, diets for 501 Epicopeiidae, taxonomy of 5295 Epidiaspis leperii biology of 5608 control of
       ontrol of biological 1632 fumigants for 6646 growth regulators for 590, 2092, 3633, 4169, 4713, 6665 insecticides for 1110, 3140, 3635, 3659, 3679, 5809 protective atmospheres for 1116 temperature control for 3669 timing of 4671 DT registance in in New South Wolse
                                                                                                                                                                    4111
                                                                                           in sultanas, in Victoria 3141

Ephestia kuehniella
Bacillus cereus in, in Yugoslavia 2107
B. thuringiensis in, in Yugoslavia 2107
biology of 5801
                                                                                                                                                                                           oil emulsions for 5612
threshold for 5612
in France 5608, 5612
                                                                                                chromosomes in 4273
                                                                                                control of
     DDT resistance in, in New South Wales
                                                                                                    fumigants for 588 insecticides for 1110
                                                                                                                                                                                           on plum
           1110
                                                                                                                                                                                                damage caused by 5612
                                                                                                                                                                                           in France 5608
parasitised by, Aphytis mytilaspidis, in
France 5608
     development in, effects of damaged grain
                                                                                                DDT resistance in, in New South Wales
           on 3670
                                                                                                     1110
     dieldrin resistance in, in New South Wales
                                                                                                descriptions of 5801
          1110
                                                                                                dieldrin resistance in, in New South Wales
                                                                                                                                                                                       Epilachna
    eggs of, effects of protective atmospheres
on 6706
fenitrothion resistance in, in New South
Wales 1110
FT strain of 3665
genitalia in 4111
granulosis virus in, characterization of
                                                                                                                                                                                           distribution of 4454 food-plants of 4454
                                                                                               eggs of, effects of protective atmospheres on 6706 genitalia in 4110 in Australia 1110 in Norway 4110 in UK 4660, 5801 in West Germany 588 in Yugoslavia 2107 in foodstuffs, damage caused by 5801 in stored grain, in West Germany 588 in stored products, imported into UK 3658
                                                                                                                                                                                      biology of 6507
chorion in 5307
control of, insecticides for 6507
in Italy 5307
in USSR 6507
                                                                                                                                                                                      on cucurbits, in USSR 6507
on Ecballium elaterium, in Sicily 5307
Epilachna philippinensis
in Philippines 449
on Vigna radiata, varietal preferences of
           6671
    in Australia 1110
in Nigeria 6646, 6647
in Swaziland 4662
in Switzerland 4671
    in USA 3678, 3679
    in cacao beans, in Nigeria 6646
in chocolate factories, in Switzerland
                                                                                                in wheat products, extracting of 3668 larvae of, integumental pigments in 1220 malathion resistance in, in New South
                                                                                                                                                                                      Epilachna varivestis
cannibalism in 6189
colour preferences in 3297
control of
    in dried onions, development of 4345
                                                                                                      Wales 1110
    in sorghum grain, varietal preferences of 5815
                                                                                                ova in, degeneration of 1230
                                                                                                                                                                                               antifeedants for 662, 4494 biological 6192
                                                                                                parasites of
                                                                                                    attraction to kairomones of 3318 defence mechanisms against 840, 841
     in stored groundnuts
    assessing infestations of 3678
in Kansas 3679
in Nigeria 6647
in stored products, imported into UK
                                                                                                                                                                                               growth regulators for 4494 insecticides for 6194 threshold for 4891 timing of 4887
                                                                                                    effects on development and morphology
of 5474
                                                                                                parasitised by
                                                                                           parasitised by
Phanerotoma flavitestacea 2837, 3849,
3850, 5474, 6091
Trichogramma spp. 1650
T. embryophagum 6322
T. evanescens 2813
Venturia canescens 840, 841
preyed on by, Orius minutus 3473
ephialtes, Zygaena
Ephialtinae
in Chile, 4443
           3658
                                                                                                                                                                                           cowpea chlorotic mottle virus in,
    malathion resistance in, in New South
Wales 1110
mating competitiveness in, effects of γ-
                                                                                                                                                                                                 transmission of 2007
                                                                                                                                                                                           cowpea mosaic virus in, transmission of
                                                                                                                                                                                          1011 fecundity in effects of food-plant on 1012 effects of humidity on 1012 effects of temperature on 1012 hyperparasitised by, Eupteromalus viridescens in Maryland 4028 in Costa Rica 1011 in USA 4028, 4887, 5673, 6189, 6192, 6194
    irradiation on
mating in 4834
                                       1109
    mating in 48.34
ova in, degeneration of 1230
oviposition in, detecting of sites for 5812
pupae of, effects of low oxygen
concentrations on 787
seasonal abundance of 3678, 6647
sex ratio in 3665
traps for 3678, 4671
                                                                                                in Chile 4443
                                                                                                parasitising, Tenthredinidae, in Europe
                                                                                                     5773
                                                                                           ephippias, Anarsia
```

onacina varivesus conto.	Episyrphus baiteatus conta.	Erannis deionaria conto.
life-span in	parasitised by, Ichneumonidae, in	Pleistophora spp. in, in West Germany
effects of food-plant on 1012	Palaearctic region 3346	546
effects of humidity of 1012	preying on	Erannis marginaria
effects of temperature on 1012	Aphididae, in Poland 2438	biology of 1452
life tables for 6189	Aphis pomi 3472	control of 1452
on Phaseolus lunatus	Hysteroneura setariae, in Taiwan 3316	descriptions of 1452
damage caused by 4891	Myzus persicae, in Bulgaria 1462	in Bulgaria 1452
development of 2480	epitricis, Microctonus	Erebus macrops (see Eupatula macrops)
effects of plant growth stage on 2481	Epitrimerus pyri	eremita, Herpisticus
on Phaseolus vulgaris	biology of 969	Eremocoris cupressicola
development of 2480	control of, cultural 5609	sp. nov., description of 2063
in Maryland 4028	in Canada 969	
on soyabean		in USA 2063
	in USA 5609	on Cupressus sergentii, in California
assessing infestations of 4887	on pear	2063
development of 2480, 6517	effects of sprinkler irrigation on 5609	Eremopeza, parasitised by, mites, in Iraq
effects of cropping systems on 5673	in Nova Scotia 969	4453
effects of plant growth stage on 1012,		
2011, 2481	Epitrix	Eremophasma
feeding by 6517	control of, insecticides for 3541	gen. nov., description of 2172
in Indiana 6189, 6192, 6194	on tomato, in Georgia (USA) 3541	parasitising, Pseudococcidae, in
	Epitrix hirtipennis	Tadzhikistan 2172
in Maryland 4028		
varietal preferences of 2011	in Society Islands 1833	Eremotermes paradoxalis
on Vigna unguiculata, in Costa Rica	on eggplant, in Tahiti 1833	colony development in 1895
1011	on Physalis, in Tahiti 1833	in Pakistan 1895
parasitised by		
	on tomato, in Tahiti 1833	swarming in 1895
Coccipolipus epilachnae 457	epius, Spalgis	Eremotylus, taxonomy of 3844
Pediobius foveolatus, in Maryland	8-Epixanthatin	Eretmocerus mundus
4028	in Drosophila melanogaster, growth	in India 2352
predators of	regulator activity of 2646	in Israel 6567
effects of insecticides on 6194	in Xanthium canadense 2646	parasitising
in Indiana 6189	EPN (O-ethyl O-(4-nitrophenyl)	Aleurolobus barodensis, in Uttar
pilachna vigintioctopunctata (see	phenylphosphonothioate)	Pradesh 2352
Henosepilachna vigintioctopunctata)	against	Bemisia tabaci, in Israel 6567
pilachnae, Coccipolipus	Anticarsia gemmatalis 672	Neomaskellia bergii, in Uttar Pradesh
pilachnae, Pediobius (see P. foveolatus)	Heliothis armigera 1149	2352
pilachninae, Perilitus coccinellae not	with chlordane, against, Heliothis	Eretmocerus serius
parasitising 1886	armigera 1149	parasitising
pilobium angustifolium, Macrosiphum	with chlorpyrifos, against, <i>Heliothis</i>	Aleurocanthus woglumi, and biological
subarcticum on, in Manitoba 144	armigera 1149	control using, in Mexico 1652
pinotia tedella	with DDT, against, Heliothis armigera	Aleurothrixus floccosus, and biological
		control voing in Moving 1652
hyperparasitised by, Mesochorus	1149	control using, in Mexico 1652
sylvarum, in Denmark 3597	with dicrotophos, against, Heliothis	Ergosta-5,24(28)-dien-3-ol, (3β) -, in
in Denmark 3597, 5148	armigera 1149	Laodelphax striatella, supplied by yeast-
on Picea abies, in Denmark 3597, 5148	with endrin, against, Heliothis armigera	like symbionts 732
parasites of, in Denmark 3597	1149	Ergosta-5,7,22-trien-3-ol
parasitised by	with HCH, against, Heliothis armigera	$(3\beta,22E)$ -
Apanteles tedellae, in Denmark 5148	1149	in Homona coffearia diet, dependence
Pimplopterus dubius, in Denmark	with leptophos, against, Heliothis	of emergence on 2192
5148	armigera 1149	in wheat grain, effects on Sitophilus
piphyas postvittana	with mephosfolan, against, Heliothis	oryzae of 2785
control of	armigera 1149	Ergost-5-en-3-ol
fumigants for 1120	with methomyl, against, Heliothis	$(3\beta,24R)$ - (campesterol)
growth regulators for 2149	armigera 1149	
insecticides for 963, 5888, 5889	with phosfolan, against, Heliothis	in rice, not utilised by Laodelphax
in Australia 963, 1120, 1458	armigera 1149	striatella 732
	Epofenonane (2-ethyl-3-[3-ethyl-5-(4-	
in New Zealand 5888, 5889		in Trogoderma granarium diet, selectiv
in stored apples, in Tasmania 1120	ethylphenoxy)pentyl]-2-methyloxirane)	uptake of 3749
nuclear polyhedrosis virus in,	against	Ergosterol (see Ergosta-5,7,22-trien-3-ol,
pathogenicity of 1459	Choristoneura occidentalis 5154, 5155	$(3\beta,22E)$ -)
on apple, in New Zealand 5888, 5889	Planococcus citri, on Citrus 3500	Eriaphytis, parasitising, Cerococcus ornatus
sex ratio in 1458	Psylla pyri, on pear 1982	in Tamil Nadu 6577
triprene in, effects of 2149	Spodoptera littoralis 4378	Eriborus, in rice-fields, in West Bengal 90
piplemidae, taxonomy of 5295	in Choristoneura occidentalis, effects on	Erica cinerea, Lochmaea suturalis on, in
pirhyssa, taxonomy of 3099	reproduction of 5155	France 279
piscopalis, Eudiagogus	in cucumber fields, effects on soil-	Erica scoparia, Lochmaea suturalis on, in
pistrophe	inhabiting mites of 2478	France 279
biology of 2312	in Pseudococcus calceolariae, effects on	erichsonii, Laricobius
	sex ratio of 1162	erichsonii, Pristiphora
illustrations of 2312		
pistrophe balteata (see Episyrphus	in Samia cynthia, increasing silk	eridania, Spodoptera
balteatus)	production 4366	Erigeron, Nysius caledoniae on, in Hawaii
pistrophe nitidicollis	Epomyia rufiventris (see Cyclotelus	4614
in Poland 2438	rufiventris)	Erigonidae, prey selectivity in 6324
	Epoxidase, aldrin, in Peridroma saucia,	Erinnyis ello
preying on, Aphididae, in Poland 2438		
pistrophella	effects of food-plant on activity of 4785	in Brazil 2498, 4087
biology of 2312	equestris, Merodon	in Colombia 1025
illustrations of 2312	equiseticola, Aphidius (see A. rhopalosiphi)	on cassava
pisyrphus	Equus caballus (see Horse)	in Brazil 2498
biology of 2312	Eragrostis, Pseudonapomyza gujaratica on,	in Colombia 1025
illustrations of 2312	in Gujarat 6372	on rubber, in Brazil 4087
pisyrphus balteatus	Erannis aurantiaria (see Agriopis	parasites of, in Brazil 2498
development in, effects of humidity and	aurantiaria)	predators of, in Brazil 2498
temperature on 3865	Erannis defoliaria	seasonal abundance of 4087
diel activity in 5480	biology of 1452	Eriobotrya japonica (see Loquat)
in Bulgaria 1462	control of 1452	Eriocereophaga humeridens, on Eriocereus,
in East Germany 5480	biological 2616	and biological control using, in
in Finland 3827	descriptions of 1452	Queensland 6337
in India 3542	in Bulgaria 1452	Eriocereus, Cactoblastis spp. on, and
	in USSR 2946	biological control using, in Queensland
in Poland 2438		6337
in Taiwan 3316	in West Germany 546	
in apple orchards, in East Germany	nuclear polyhedrosis virus in, in West	Eriocereus martinii
5480	Germany 546	Cactoblastis spp. on, in Argentina 6337
		control of, biological 5945

Eriocereus martinii contd. Eriosoma anncharlotteae contd. Erythroneura comes control of, insecticides for 4908 in USA 4908 taxonomy of, confused with E. ulmi Hypogeococcus festerianus on, and biological control using, in Queensland 2170 on grapevine, in Pennsylvania 4908 Erythrophleum ivorense (wood), 2857, 5498 eriosoma, Chrysodeixis (see C. chalcites) Eriosoma lanigerum biology of 5600 control of 2170, 5600 Eriocereus tortuosus, Hypogeococcus festerianus on, and biological control Coptotermes formosanus in, resistance to using, in Queensland 2857 control of 2170, 5600 insecticides for 1976, 5071, 5885 EPPO data sheet on 4703 in Bulgaria 1455 in India 5071 in New Zealand 5885 in Sweden 2170 in USA 1976 eriococci, Apterencyrtus (see Zaomma erythropus, Rhynocoris erytreae, Trioza esbenpeterseni, Coniopteryx 3467 Escherichia coli eriococci) eriococci) eriococci, Zaomma (Apterencyrtus)
Eriococcus, parasitised by, Microterys
narzykulovi, in Tadzhikistan 1182
Eriocrania, on Betula, in Finland 5150 in, Spodoptera eridania, lysozyme production in response to 42 skatole in, inhibiting development 1798 espinosai, Aondomytilus Eriocraniella on Quercus nigra, in Florida 6627 predation of 6627 Erioischia brassicae (see Delia brassicae) Eriophyes, on Litchi chinensis, in Uttar Pradesh 2449 on apple essigi, Acalitus damage caused by 14 in New Zealand 5885 Esterase in Dictyoploca japonica, activity pattern of 44 in Ohio 1976 in Sikkim 5071 in Sweden 2170 resistance to 5600 Eriophyes aloinis control of, acaricides for 5141 in Drosophila, variability of 6093 in Lymantria dispar larvae, activity of 4909 descriptions of 5141 distribution of 5141 parasites of, effects of insecticides on in Myzus persicae clonal differences in 4733 5071 in USA 5141 on Aloe spinosissima, damage caused by 5141 parasitised by, Aphelinus mali, in Sikkim inheritance of variants of 4816 5071 role in insecticide resistance of 2720 variation in 5348 variation within clones of 6086 in Nilaparvata lugens biotypes 3412 in Oryzaephilus surinamensis, role in malathion resistance of 4159 in Resseliella theobaldi salivary glands 1443 Eriosoma patchiae
in Sweden 2170
on Ulmus glabra, in Sweden 2170
Eriosoma sorbiradicis of 2170 on Haworthia, damage caused by 5141 Eriophyes ambix sp. nov., description of 2656 in USA 2656 on *Quercus wislizenii*, in California 2656 sp. nov., description of 2170 in Sweden 2170 on Sorbus aucuparia, in Sweden 2170 Eriophyes genistae
descriptions of 2050
in Italy 2050 1443 Eriosoma ulmi in Sweden 2170
in West Germany 2746
on Ulmus, in West Germany 2746
taxonomy of, confused with E.
annchalotteae 2170 in Sitotroga cerealella, role in insecticide resistance of 1215 in Spodoptera littoralis aminocarb inhibition of 4156 on Sarothamnus scoparius, in Italy 2050 taxonomy of 2050 Eriophyes guerreronis control of role in insecticide resistance of role in leptophos resistance of pesticide degradation by 3198 anncharlotteae 2170
erivanicus, Micromerus
Erixestus winnemana
in USA 5761
parasitising, Calligrapha spiraea, in
Pennsylvania 5761
Ernobius mollis
in Australia 5763
in Israel 2087 acaricides for 1436 biological 1436 in Ivory Coast 1436 natural enemies of 2654 4360 isoenzymes in Caloglyphus berlesei, role in acaricide resistance of 4155 on coconut 2654 in Dendroctonus brevicomis, population variation in 5191 damage caused by 1436 varietal preferences of 1436 variation in 5191
in Dendroctonus frontalis, population
variation in 5191
in Galleria mellonella pupae, effects of
cooling on synthesis of 3266
in Galleria mellonella pupal
hemolymph, effects of low
temperatures on 6065
in Oravia pseudosupata, role in in Israel 2087
in West Germany 3106
in dwellings, in West Germany 31
in pine timber, in Israel 2087
on Pinus radiata, in Victoria 5763 Eriophyes imperata sp. nov., description of 1769 in Egypt 1769 3106 in Egypt 1769
on Imperata cylindrica, in Egypt 1769
Eriophyes melongenus
sp. nov., description of 1769
in Egypt 1769
on egyplant, in Egypt 1769
Eriophyes parthenii (see Aceria parthenii)
Eriophyes quercerinus
sp. nov., description of 2656
in USA 2656
on Oversus virginiana in Florida 2656 Ernobius oertzeni
in Israel 2087
on Pinus, in Israel 2087
Erodium cicutarium, Pogonomyrmex
californicus on, in California 4975 in Orgyia pseudotsugata, role in insecticide susceptibility of 2641 in Tetranychus urticae 4155
Esterase, acetyl choline in Caloglyphus berlesei, role in acaricide resistance of 4154 in Laodelphax striatella, carbamate inhibition of 1151 erosa, Phymata
Erosion, of soil, role of insects in 2790
erosus, Sosylus
erotias, Argyroploce (see Gatesclarkeana on Quercus virginiana, in Florida 2656

Eriophyes spartii
descriptions of 2050
in Italy 2050 erotias) in Locusta migratoria eggs, carbamate inhibition of 2315 in Musca domestica, organophosphate inhibition of 5972 in Musca domestica head, inhibition by erotias, Gatesclarkeana (Argyroploce) Erotylidae, Laboulbeniales in, in Taiwan on Spartium junceum, damage caused by 2050 1129 Errastunus ocellaris in UK 2918, 3434 in grassland, effects of cutting on 3434 on Holcus mollis, resource utilisation by taxonomy of 2050 Eriophyes spermaphaga sp. nov., description of 2656 in USA 2656 in Musca domestica head, inhibition by phenyl methylcarbamates of 1696 in Nephotettix cincticeps, carbamate inhibition of 1153 in Nilaparvata lugens, carbofuran inhibition of 6392 in Spodoptera littoralis aminocarb inhibition of 4156 leptophos inhibition of 6710 role in insecticide resistance of 213' on Juglans hindsii, in California 2656 2918 erraticum, Tapinoma Erthesina fullo in India 2436 Eriophyes tulipae (see Aceria tulipae) Eriophyes vaga (see Aceria vaga) Eriophyidae control of, acaricides for 2640 in Kirgizia 1448 preyed on by, *Typhlodromus dossei*, in New South Wales 1957 on apple, in Himachal Pradesh 2436 Eruca sativa Lipaphis erysimi on, in Punjab 3542
Myzus persicae on, in Punjab 3542
Eruca sativa fields
parasitic insects in, in Punjab 3542
predatory insects in, in Punjab 3542
eruditus, Cheyletus
ervi, Aphidius role in insecticide resistance of 2137, 4364 New South Wales 1957

Eriophyoidea
in Kirgizia 1448
morphology of 1448

Eriopis connexa, preying on, Aphididae, and
biological control using, in Chile 4174

Eriosoma americanum
in USA 5061 in Tetranychus urticae
properties of 4154
role in acaricide resistance of 1812 isoenzymes in Caloglyphus berlesei, role in acaricide resistance of 4155 in Tetranychus urticae 4155 Erwinia, in, Anthonomus grandis, in USA 3546 in Tetranychus urticae 4155
Esterase, aryl
in Spodoptera littoralis, role in insecticide
resistance of 57
pesticide degradation by 3198
Esterase, carboxyl
hydrolysis of organophosphates by 651
in Drosophila melanogaster
activity pattern of 1796
role in reproduction of 5320
in insects, not involved in JH degradation
3257 on Ulmus, in Pennsylvania 5061 preyed on by, Scymnus brullei, in Pennsylvania 5061 Erwinia carotovora, in, potato, associated with damage by Ostrinia nubilalis 6537 erysimi, Lipaphis
erythreus, Pentamerismus
Erythrina berteroana, Apion candyae on, in
El Salvador 285 Eriosoma anncharlotteae sp. nov., description of 2170 in Sweden 2170 on Ribes alpinum, in Sweden 2170 on Ulmus carpinifolia, damage caused by 2170 Erythrina indica, Rhaphipodus spp. on, in Kerala 284
erythrocephala, Acantholyda
erythrocephala, Calliphora (see C. vicina)
erythrocephalus, Polistes on Ulmus procera, damage caused by

ibject Index
sterase, carboxyl contd.
in Myzus persicae
evolution of 1694 role in insecticide resistance of 1694,
6718
in Oryzaephilus surinamensis 4159
in Spodoptera littoralis
leptophos inhibition of 6710 role in insecticide resistance of 4364
sterase, choline
in Apis mellifera, inhibition by phenyl methylcarbamates of 680
in cat, inhibited by Vespa orientalis
venom 1340
in fowl, DDT reducing malathion inhibition of 1709
in <i>inephotettix</i> , not involved in
vamidothion resistance 908 in Oryzaephilus surinamensis, role in
malathion resistance of 4159
in Spodoptera littoralis, role in insecticide
resistance of 4364 sterase, juvenile hormone
in Drosophila hydei, activity pattern of
3279 in Galleria mellonella, relation of larval-
pupal transformation and 6080
in insects assay for 4256
JH degradation by 3257
titres of 4256
in Manduca sexta larval epidermis 3252 in Manduca sexta larval hemolymph
3268
in Musca domestica, inhibitors of 3228 in Trichoplusia ni larvae
activity pattern of 1216
properties of 2194
control of
insecticides for 2310
traps for 5646 DDT analogues in, metabolism of 3225
diapause in 492
digestive enzymes in 1627
in Honduras 3557 in USA 492, 5646
melanism in, effects of temperature on
104 on cotton, in Honduras 3557
on cotton, in Honduras 3557 on lettuce, in Arizona 5646
predators of, dissemination of pathogens by 4688
preyed on by, Zelus exsanguis 4688
tigmene lactinea (see Amsacta lactinea) hanaminium, 2-(acetyloxy)-N,N,N-
trimethyl-
in invertebrates, book 3274
effects on cyclic nucleotides of 751
in invertebrates, book 3274 in Manduca sexta nerve cord effects on cyclic nucleotides of 751 synthesis of 751
in <i>Tenebrio molitor</i> , not affecting neuromuscular junctions 6045
hanaminium, 2-[(aminocarbonyl)oxy]-

melanogaster, toxicity of 6699
Ethanaminium, 2-chloro-N,N,N-trimethyl-(see Chlormequat) Ethanaminium, 2-hydroxy-N,N,N-trimethyl-

(choline)

chloride, diet component for, Lixophaga diatraeae 1316 Ethane, 1,2-dibromoagainst

Caryedon serratus 5834 Dacus dorsalis, in stored papayas 3142
Galleria mellonella 3717 Tribolium castaneum 3667
formulations of, controlled release 3717
in stored fruit, residues of 1121
in stored papayas, residues of 3142
in stored products, residues of 585
resistance to, in, pests of stored products, in India 6640
thane, 1.2-dichlora-Sitophilus oryzae, in rice grain 589

in India 6640
Ethane, 1,2-dichloroagainst, Tribolium castaneum 3667
in wheat grain, residues of 3114
with carbon disulfide, and tetrachloromethane, against, pests of wheat grain 3114

Ethane, 1,2-dichloro- contd. with tetrachloromethane against pests of wheat grain 3114 Tribolium castaneum 3667 Ethane, 1,1'-oxybis-

in Manduca sexta, terminating pupal diapause 4258 in Sarcophaga crassipalpis, terminating

pupal diapause 4258

Ethane, tetrachloro-, with trichloromethane, for killing Lepidoptera in light-traps

1,2-Ethanediamine, N,N'-diphenyl-, in rubber septa, reacting with aldehyde sex attractants 2279

Ethanedioic acid

in Chenopodium quinoa, role in resistance to Myzus persicae of 3295 in cotton, role in susceptibility to

Amrasca biguttula of 6568 in rice, role in resistance to Nilaparvata lugens of 6385

Tribolium confusum responses to 6179

Ethanimidothioic acid, N-[(aminocarbonyl)oxy]methyl ester

against, Spodoptera littoralis 2634, 4387

in Coccinella undecimpunctata, toxicity of 2634

in Spodoptera littoralis, penetration of cuticle by 4380 synergists for 4387

synergists for 4387
with tris(methylphenyl) phosphate,
antagonistic 4387
Ethanimidothioic acid, 2-(diethylamino)-N[[(methylamino)carbonyl]oxy]-2-oxo-,
methyl ester (see Oxamyl)
Ethanimidothioic acid, 2-(dimethylamino)-Nhydroxy-2-oxo-, methyl ester, in
Tetranychus urticae, oxamyl metabolite
4150 4150

Ethanimidothioic acid, N-hydroxy-2-(methylamino)-2-oxo-, methyl ester, in Tetranychus urticae, oxamyl metabolite 4150

Ethanimidothioic acid, N[[(methylamino)carbonyl]oxy]-, methyl
ester (see Methomyl)
Ethanimidothioic acid, N,N'[thiobis[(methylimino)carbonyloxy]]bis-,

dimethyl ester (see Thiodicarb)

attractant for, Anastrepha suspensa 2154 Drosophila melanogaster responses to 4674

D. simulans responses to 4674 in Drosophila funebris, effects of 6047 in Drosophila melanogaster, effects of 5967, 6047

5967, 6047
in Drosophila melanogaster diet,
utilisation of 6048
in Drosophila simulans, effects of 5967
in Megoura viciae, toxicity of 4165
with 2,6,6-trimethylbicyclo[3,1,1]hept-2ene, and 3,3,7-trimethyl-2,9dioxatricyclo[3,3,1,047]nonane,
attracture for Vyloterus lineatus attractant for, Xyloterus lineatus

4621, 4629 with 2,6,6-trimethylbicyclo[3.1.1]hept-2with 2,6,6-trimethylolocyclo[3.1.1]nept-2-ene, and (1a,2a,5a)-4,6,6-trimethylolocyclo[3.1.1]hept-3-en-2-ol, attractant for, *Dendroctonus ponderosae* 5202, 6590

Ethanol, 2-(3,3-dimethylcyclohexylidene)-(Z)- (see also Grandlure)

Anthonomus grandis responses to attractant for, Curculio caryae 947

Curculio caryae sex-pheromone component 947
Ethanol, 2-phenyl-

in Phalaenoides glycinae male brush organ 2693 acetate, in Phalaenoides glycinae male brush organ 2693

in cotton, bacteria and fungi transmitted by Psallus seriatus associated with excessive production of 2548

Ethene contd.

in Vigna unguiculata ethephon causing production of 3525 Megalurothrips sjostedti causing production of 3525

homopolymer

for increasing resistance of packing containers to insects 2606 stored-product insects in, damage caused by, specific identity of 4678 homopolymer, chlorinated, Isoptera in,

damage caused by 3147

homopolymer, chlorosulfonated, Isoptera in, damage caused by 3147 polymer with 1-propene, Isoptera in, damage caused by 3147

Ethene, chloro-

homopolymer

Isoptera in, damage caused by 3147 stored-product insects in, damage caused by, specific identity of 4678

Ethenol, homopolymer, in Baculovirus formulations 6518

Ethephon ((2-chloroethyl)phosphonic acid) for screening plants for resistance to abscission-causing pests 3525 in Vigna unguiculata, ethene production

caused by 3525
Ethiofencarb (2-[(ethylthio)methyl]phenyl methylcarbamate)

against aphids 6530

Myzus persicae, on Capsicum 5118 Toxoptera citricida, on Citrus 4004 in Apis mellifera, toxicity of 1710

in citrus groves, effects on predatory insects of 4004

in Leptomastix dactylopii, toxicity of 2332

in potato, effects of 2029
in wheat fields, effects on predatory
insects of 5998
non-target effects of 6530
resistance to, in, Myzus persicae, in New
South Wales 1700

synergists for, piperonyl butoxide as 1700

toxicology of 6530

Ethion (S,S'-methylene bis(O,O-diethyl phosphorodithioate)) against

Cydia delineana, on hemp 3047 Dolichotetranychus floridanus, on pineapple 2983

Elateridae, on grain crops 2359 Nilaparvata lugens, on rice 3963

with oil emulsion in parasitic insects, toxicity of 5631 in predatory insects, toxicity of 5631

Ethiopia

Cicer in, pests of 5678

Epicauta albovittata in, on Vigna radiata 435 locust control in 5898

Schistocerca gregaria in Spodoptera exempta in Ethiopian region

Ethiopian region

Cryptotermes spp. in 5002

Diptera in, book 6003

Encyrtidae in 4209

Oligota spp. in 2766

Onitis spp. in, book 3727

Zaomma spp. in 4988

Ethoprophos (O-ethyl S,S-dipropyl phosphorodithioate)

against

against

Agriotes sputator 171 Agrotis segetum 6709 Agrous segetum 6/09 Costelytra zealandica, in pastures 1422 Diabrotica spp. 6253 Geococcus coffeae, on coffee 1055 Lycoriella mali, on mushroom 4016

Pectinophora gossypiella, on cotton

pests of tobacco 4609

Rhizoecus nemoralis, on coffee Tribolium castaneum 5810 in soil, effects on fauna of 1711

in tobacco plantations, effects on predatory insects of 4609, 4934 Ethyl-DDD (1,1'-(2,2-

dichloroethylidene)bis[4-ethylbenzene])

eucerus, Euselasia eucharis, Ballia

```
Ethyl-DDD contd.
     against, Nilaparvata lugens, on rice 3396, 3400, 3928
      in rice, reducing reproduction by
              Nilaparvata lugens 3928
      with oil emulsion, against, Psylla pyricola,
on pear 4888
on pear 4888
Ethyl Gusathion (see Azinphos-ethyl)
Ethyl-parathion (see Parathion)
Ethylene (see Ethene)
Ethylene dibromide (see Ethane, 1,2-
dibromo-)

Ethylene dichloride (see Ethane, 1,2-dichloro-)

Etiella zinckenella biology of 1513 control of
     control of insecticides for 6512 timing of 447 distribution of 1513 in Cape Verde 137 in Egypt 4357 in Japan 1513
     in Philippines 447, 449
on soyabean, in Japan 1513
on Soyabean, in Japan 1513
on Vigna radiata
in Philippines 447
varietal preferences of 449
parasites of, in Japan 1513
parasitised by, Trichogrammatoidea
armigera 2169
Etrimfos (O-(6-ethoxy-2-ethyl-4-pyrimidinyl)
O,O-dimethyl phosphorothioate)
against
            Artogeia rapae, on cabbage 5888
Ctenopseustis obliquana, on apple
5888
           Epiphyas postvittana, on apple 5888
Hemiberlesia rapax, on Actinidia
chinensis 5883, 5888
            Irenimus compressus, on black currant
pests of maize 5652
pests of rape 5652
pests of rape 5652
Plutella xylostella, on cabbage 5888
chemical properties of 5888
in Apis mellifera, toxicity of 1710
in maize, not degraded 1156
physical properties of 5888
properties of 5652
toxicology of 5652
Etrofolan (see Isoprocarb)
etrusca, Haplidia
Euaresta bella
biology of 3351
in USA 3351
on Artemisia artemisiifolia, in Maryland
                   6720
      on Artemisia artemisiifolia, in Maryland
              3351
 Euaresta festiva
      biology of 3351
in USA 3351
       on Artemisia trifida, in Maryland 3351
on Artemisia tritida, in Marylan Eublemma amabilis control of, insecticides for 1350 preying on, Kerria lacca 1350 Eublemma scitula in India 1359 in Libya 5083 preying or
                                                                        1350
preying on
Coccidae 1359
Saissetia oleae, in Libya 5083
Euborellia, on Cynodon dactylon, assessing infestations of 2412
 Euborellia annulipes (see also Anisolabis
      annulipes)
in India 6346
      preying on, Chilo spp., in Tamil Nadu
 Euborellia annulipes annulipes, in Malta 5413
 Eucallipterus tiliae
```

```
5169
                                                                                                                                                                                                        Euchorthippus pulvinatus
                                                                                                                                                                                                            biotic potential of 4821
in USSR 4821
                                                                                                        Euselasia eucerus on, distribution pattern
                                                                                                              of 183
                                                                                                        Gonipterus scutellatus on
                                                                                                                                                                                                        Euchrysops cnejus
in Malaysia 436
                                                                                                            in France 5790
in Italy 6587
                                                                                                                                                                                                       on Vigna radiata, in Sarawak 436
Eucoccidophagus ferganensis
sp. nov., description of 1182
in USSR 1182
                                                                                                       in southern Africa 5169
insect pests of 3070
in Australia 3613
in Italy 6592
not affected by oil content 6634
Paropsis spp. on, in Tasmania 2591
Pectinariophyes stalii on, feeding by 2579
                                                                                                                                                                                                       in USSR 1182
parasitising, Pseudococcus parvulus, in
Tadzhikistan 1182
Eucoilidae, in British Isles 4736
Euconocephalus, in Australia 5292
Eucorynus, in Japan 4187
Eucosma, parasitised by,
Trichogrammatoidea bactrae 2169
Eucosma critica (see Cydia critica)
Fucosma sonomana
                                                                                                               2579
                                                                                                        pest control on 3070, 3613

Prasoidea sericea on, in southern Africa
                                                                                                               5169
                                                                                                   Eucalyptus camaldulensis, Microlepidoptera
on, in Vietnam 5166
                                                                                                                                                                                                        Eucosma sonomana
attractants for 536
                                                                                                   Eucalyptus cinerea, Gonipterus scutellatus
on, in Italy 2081
                                                                                                                                                                                                            control of, mating disruption for 6593,
                                                                                                                                                                                                                   6594
                                                                                                   Eucalyptus citriodora, Microlepidoptera on, in Vietnam 5166
                                                                                                                                                                                                            in USA 536, 6593, 6594
                                                                                                                                                                                                            on Pinus ponderosa, in Oregon 6593,
                                                                                                   Eucalyptus dives, Coleoptera on, in Victoria
                                                                                                                                                                                                                   6594
                                                                                                                                                                                                        Eucosma womonana
in USA 2034
                                                                                                   Eucalyptus exserta, Microlepidoptera on, in
Vietnam 5166
                                                                                                                                                                                                            on Helianthus divaricatus, in Oklahoma
                                                                                                    Eucalyptus globulus
                                                                                                                                                                                                                   2034
                                                                                                        Gonipterus scutellatus on
                                                                                                                                                                                                            on sunflower
                                                                                                             damage caused by 6587
                                                                                                                                                                                                                 effects of sowing date on 2034
                                                                                                             in France 5790
in Italy 2081, 6588
                                                                                                                                                                                                                 in Texas 2034
                                                                                                                                                                                                        varietal preferences of 2034

Eudemopsis archimedias

in India 281
                                                                                                   Eucalyptus grandis (wood), Nasutitermes
                                                                                                           exitiosus in, effects of fungi on resistance
                                                                                                                                                                                                       m India 281
on cinnamon, in India 281
Euderomphale, parasitising, Aleurolobus
barodensis, in Uttar Pradesh 2352
Eudiagogus, key to 1909
Eudiagogus episcopalis, on Sesbania, in
South America 1909
Eudiagogus maryae
sp. nov., description of 1909
in USA 1909
on Sesbania 1909
Fudiagogus nallidevittetus on Sesbania
                                                                                                           to 262
                                                                                                   Eucalyptus gunnii, Gonipterus scutellatus on, in Italy 2081

Eucalyptus macrorhyncha, Coleoptera on, in Victoria 5763
                                                                                                   Eucalyptus microtheca, Cyrtacanthacris
guttulosa on, in New South Wales 822
Eucalyptus obliqua, Abantiades latipennis
on, damage caused by 1091
Eucalyptus polyanthemos, Gonipterus
scutellatus on, in Italy 2081
                                                                                                                                                                                                        Eudiagogus pallidevittatus, on Sesbania, in South America 1909
                                                                                                   Eucalyptus radiata, Coleoptera on, in
Victoria 5763
                                                                                                                                                                                                       Eudiagogus pogo
sp. nov., description of 1909
in USA 1909
on Sesbania 1909
                                                                                                    Eucalyptus regnans
Abantiades latipennis on, damage caused
                                                                                                              by 1091
                                                                                                        Formicidae harvesting seeds of, in
Victoria 2587
                                                                                                                                                                                                       Eudiagogus pulcher
in Costa Rica 1909
in Honduras 1909
in Mexico 1909
in USA 1909
                                                                                                    Eucalyptus regnans (wood)
                                                                                                        Coptotermes lacteus in, effects of fungi on 5490
                                                                                                         Nasutitermes spp. in 5489
                                                                                                                                                                                                            on Sesbania, in Americas 1909
                                                                                                                                                                                                       Eudiagogus rosenschoeldi
in USA 1909
on Sesbania macrocarpa, in Mississippi
1909
                                                                                                        N. exitiosus in
                                                                                                             effects of fungi on 2842
effects of fungi on resistance to 262
                                                                                                  enects of rungs on resistance to 26
Eucalyptus stuartiana
Gonipterus scutellatus on
feeding by 2081
in Italy 2081, 6588
Eucalyptus viminalis, Coleoptera on, in
Victoria 5763
Fucalyptus (read)
                                                                                                                                                                                                       Eudonia sabulosella
control of, insecticides for 5867
in New Zealand 5867
in pastures, in New Zealand 5867
Euetheola rugiceps
flight activity in, relation of coloration
and 2184
in USA 2184
Functional fulfile, microtype case of 47
                                                                                                   Eucalyptus (wood)
insect pests of 3070
in Australia 3613
pest control in 3070, 3613
Rutela lineola in, in Brazil 2066
                                                                                                                                                                                                       Euexorista futilis, microtype eggs of 4739
Eufrontina, parasitising, Tetralopha
robustella, in Florida 5161
Eugenia jambolana
                                                                                                    Eucelatoria
                                                                                                        attraction of, to host food-plants 2540 host food-consumption as affected by
                                                                                                                                                                                                            Acrocercops cramerella on, in Bihar 408
                                                                                                                                                                                                            A. phaeospora on, in Uttar Pradesh 2459
                                                                                                               6316
                                                                                                        oxygen consumption in 2690 parasitising, Heliothis virescens 6316
                                                                                                                                                                                                        Balocha bifurcata on, in Delhi 3614
Eugenia javanica, Dacus dorsalis on, in
Taiwan 934
                                                                                                    Eucera longicornis
                                                                                                        attractants for 4437
in Sweden 4437
                                                                                                                                                                                                        Eugenia uniflora
                                                                                                                                                                                                       Eugenia uniflora
Aleurocanthus woglumi on
development of 4005
in Florida 1465, 4005
Eugenol (2-methoxy-4-(2-propenyl)phenol)
in almond hulls 6453
eugraphella, Nephopterix
Eugryllodes
in Soviet Central Asia 13
taxonomy of 13
Eulachnus, on conifers, in Italy 2082
   energy budget of 4031
in UK 5156
on Tilia, in UK 5156
population dynamics of, model 5156,
                                                                                                        on Ophrys, stimulation of attempted copulation in 4437
                                                                                                   Euceraphis gillettei
in Canada 551
on Alnus rubra, in British Columbia 551
parasitised by
           6591
    preyed on by

Adalia bipunctata, in UK 5156

Blepharidopterus angulatus, in UK 5156
                                                                                                             Endaphis spp., in British Columbia
                                                                                                   Praon spp., in British Columbia 551
Euceraphis punctipennis, on Betula, in
circumpolar zone 5150
eucerophaga, Diadegma
                                                                                                                                                                                                       Eulachnus, on conifers, in Italy 2082
Eulecanium takachihoi (see
Eucalyptus
    Chaetophyes compacta on, feeding by 2579
                                                                                                                                                                                                               Parthenolecanium takachihoi)
```

Eucalyptus contd.

Cleora herbuloti on, in southern Africa

· ·		713
deia heraclei	Eupelmus urozonus contd.	Euproctis chrysorrhoea contd.
biology of 2463	parasitising	control of
descriptions of 2463		
	Apion corchori, in West Bengal 1051	biological 668, 4653
distribution of 2463	Dacus oleae, in Sardinia 1473	growth regulators for 668
in Spain 2463	Dryocosmus kuriphilus, in Japan 5736	insecticide-pathogen mixtures for 668
on carrot, in Spain 2463	Euphilippia olivina (see Filippia follicularis)	insecticides for 668, 3982
on celery, in Spain 2463	Euphorbia, Diptera on, in Crimea 3304	in Netherlands 5772
parasitised by	Euphorbia canariensis, Herpisticus hierrensis	in North America 5284
Halticoptera spp., in Spain 2463	on, in Canary Islands 9	in Poland 3982
Rhysipolis spp., in Spain 2463	Euphorbia cyparissias, Hyles euphorbiae on,	
		in Yugoslavia 2107, 5863
dia ministrana	and biological control using, in Ontario	Nosema spp. in, in Yugoslavia 5863
Fin West Germany 1576	6339	polyhedrosis virus in, in Yugoslavia 5863
on Betula, in West Germany 1576	Euphorbia esula	Euproctis chrysorrhoea auct. (see E. similis)
		Euproctis fraterna
population dynamics of 1576	Bathyplectes curculionis on, nectar-feeding	
ulithis diversilineata	by 6243	control of, insecticides for 2447
control of, insecticides for 4908	control of, biological 6339	in India 2447
in USA 4908	Hyles euphorbiae on	on plum, in Punjab 2447
		Euproctis lunata
on grapevine, in Pennsylvania 4908	and biological control using	control of, insecticides for 378
dophidae	in Montana 4479	in India 378
parasitising	in Quebec 4483	
Coelaenomenodera elaeidis, in Ghana		on mulberry, damage caused by 378
	Euphorbia royleana, insecticidal activity of	Euproctis melania
362	extracts of leaves of 1675	control of
Coleotechnites edulicola, in New	Euphorbiaceae, Eurygaster integriceps on	biological 3798
Mexico 576	6351	growth regulator-pathogen mixtures for
Dichocrocis punctiferalis, in Gujarat	euphorbiae, Aphthona	3798
2822	euphorbiae, Hyles	growth regulators for 3798
Phyllonorycter spp., in England 4623	euphorbiae, Macrosiphum	insecticide-growth regulator mixtures
Phytomyza horticola, in Honshu 427	Euphorinae, venom apparatus in 2672	for 3798
Platypria coronata, in Ghana 362		
	Euphorocera claripennis	insecticides for 3798
Tenthredinidae, in Europe 5773	in Cuba 3853	hyperparasitised by, Pediobius pyrgo, in
amenidae, in Greece 4737	parasitising, <i>Mocis</i> spp., in Cuba 3853	Iraq 516
ımerus strigatus	euphytus, Rhizotrogus	in Iraq 516, 3798
in UK 5139	euplectri, Tetrastichus	on Quercus, in Iraq 516
on Narcissus, in UK 5139	Euplectrus	overwintering in 516
umerus tuberculatus	life history of 6523	parasitised by
in UK 5139	parasites of, in USA 5665	Apanteles spp., in Iraq 516
on Narcissus, in UK 5139	parasitising	Pteromalus spp., in Iraq 516
umicromus sauteri (see Micromus sauteri)	Anomis leona, in Ghana 2552	Euproctis similis
umicrosoma beneficum	Anticarsia gemmatalis 6523	Beauveria spp. in, in West Germany
in Canada 5047	in Colombia 6522	1104
in turf, sampling of 5047	Spodoptera exigua, in Mexico 1654	control of, biological 5840
umolpinae, on Rutaceae 5618	S. frugiperda, in Mexico 1654	in Poland 3592
umorpha pandorus (see E. satellitia	Euplectrus comstockii 6522, 6523	in USSR 6585
pandorus)	Euplectrus platyhypenae	in West Germany 1104
	in Mexico 1653	Metarhizium spp. in, in West Germany
umorpha satellitia pandorus		
dichlorvos in, effects on coloration of	in maize fields, in Mexico 1653	1104
4315	seasonal abundance of 1653	Nosema kovacevici in, in West Germany
in USA 4315	Euplectrus puttleri	1104
		nuclear polyhedrosis virus in, in West
unotinae, in Indian subcontinent 702	sp. nov., description of 5665	
uoniticellus intermedius, in cattle dung, for	biology of 5665	Germany 1104
fly control 2344	in Colombia 5665	on Quercus, in West Germany 1104
uonymus fortunei, Masakimyia pustulae	parasitised by, Horismenus spp., in	parasitised by, Blondelia spp., in Poland
on, galls of 4794	Colombia 5665	3592
uonymus japonicus, Masakimyia pustulae	parasitising	Pleistophora schubergi in, in West
on, galls of 4794	Anticarsia gemmatalis	Germany 1104
upalopsellus olearius	and biological control using	Protozoa in 1104
sp. nov., description of 1894	in Florida 5665	Euproctis xanthorrhoea
in Egypt 1894	in Louisiana 5665	in India 2509
in olive groves, in Egypt 1894	in Mississippi 5665	on sunflower
upalopsis aegyptiaca	in Colombia 5665	damage caused by 2509
descriptions of 1894	Eupoecilia ambiguella	in Delhi 2509
in Equat 1804	attractants for 3988, 3989	Euprojoannisia, in North America 498
in Egypt 1894	control of	Eupteromaius
in mango orchards, in Egypt 1894	control of	
upalopsis pentascuta	biological 5589	. parasitising, Oulema lichenis, in USSR
sp. nov., description of 1894	insecticides for 369, 5589	1386
in Egypt 1894	integrated 369	preyed on by, Holcocephala fusca, in
	mating disruption for 1744	Virginia 3350
upatorium, Eupteryx aurata on, in Wales		
4484	threshold for 369	Eupteromalus americanus
upatula macrops	in Austria 1756, 3988	biology of 1428
in Japan 4287	in Bulgaria 369	hyperparasitising, Hypera postica, in
pest status of 4287	in France 3988	Colorado 1428
		in USA 1428
upelmidae	in Hungary 3988	
in Lithuania 5395	in Italy 3988, 5590	parasitising, Bathyplectes curculionis, in
in Trinidad 2768	in Switzerland 1744, 3988, 3989, 5589	Colorado 1428
parasitising, Epiblema scudderiana, in	in West Germany 3988	Eupteromalus parnarae
		in Bangladesh 6425
Pennsylvania 2825	on grapevine	
upelmus, in Trinidad 2768	assessing infestations of 5590	parasitising, Scirpophaga incertulas, in
Tupelmus australiensis	forecasting infestations of 369	Bangladesh 6425
in Australia 3131	in Austria 1756	Eupteromalus viridescens
	in Switzerland 5589	hyperparasitising, Epilachna varivestis, in
parasitising, Contarinia sorghicola, in		
Queensland 3131	traps for 3989, 5590	Maryland 4028
phosphine in, toxicity of 3131	Eupoecilia angustana	in USA 4028
Cupelmus momphae	attractants for 3235	parasitising, Pediobius foveolatus, in
	in Czechoslovakia 3235	Maryland 4028
in USA 2825		
parasitising, Epiblema scudderiana, in	euproctidis, Telenomus	Eupterote
Pennsylvania 2825	euproctidis, Trichogramma	control of, integrated 500
Cupelmus urozonus	Euproctis, parasitised by, Chelonus	on coffee, in India 500
distribution of 5736	blackburni 2815	eupterus, Dinotiscus
hosts of 5736	Euproctis chrysorrhoea	Eupteryx, parasitised by, Anagrus spp., in
in India 1051	Bacillus thuringiensis in	Wales 4484
in Italy 1473	effects of diet on susceptibility to 4653	Eupteryx atropunctata
in Japan 5736	in Yugoslavia 2107	in Poland 3036

```
Eupteryx atropunctata contd.
                                                                                                  Eurygaster integriceps contd.
                                                                                                                                                                                                    Eurytoma squamosa
in USA 4090
    on sunflower, in Poland 3036
                                                                                                       control of contd.
                                                                                                           integrated 3365
                                                                                                                                                                                                         on Ceanothus sanguineus, damage caused
Eupteryx aurata
    food-plants of 4484
in UK 4484
on Urtica dioica, in Wales 4484
                                                                                                       threshold for 3360
DDT resistance in, in Iran 3365
                                                                                                                                                                                                               by 4090
                                                                                                                                                                                                     Eurytoma verticillata
                                                                                                       descriptions of 6351
                                                                                                                                                                                                         competing with, Gelis tenellus 1563
Eupteryx cyclops
                                                                                                       diapause in 756
                                                                                                                                                                                                         humidity as affecting 3293 in USA 3293
    in UK 4484
                                                                                                       distribution of 6351
                                                                                                      distribution of 6351 fats in, consumption of reserves of 756 fertilizers in, toxicity of 6694 food-plants of 6351 in Bulgaria 2873 in Greece 3367, 5520 in Iran 3364, 3365 in Romania 294, 872 in USSR 626, 1313, 1673, 2120, 2121, 3264, 3360, 3374, 5112, 5528, 6693, 6694
                                                                                                                                                                                                          in Yugoslavia 5792
    on Urtica dioica, in Wales 4484
Eupteryx orientalis
in USSR 2346
on mint, in Turkestan 2346
                                                                                                                                                                                                         Apanteles spp., in Yugoslavia 5792

A. melanoscelus 1563
Eupteryx urticae
in UK 4484
                                                                                                                                                                                                              Meteorus versicolor, in Yugoslavia
    on Urtica dioica, in Wales 4484
                                                                                                                                                                                                     temperature as affecting 3293
Eurytomidae, in Lithuania 5395
Eupulvinaria hydrangeae
in New Zealand 160
                                                                                                                                                                                                     Euscelidius variegatus, grapevine flavescence dorée, causal agent in, transmission of
     on Actinidia chinensis, in New Zealand
                                                                                                              6694
                                                                                                       lindane resistance in, in Iran 3365
natural enemies of 6351
on barley, in Iran 3365
           160
on Hydrangea, in New Zealand 160
Eurema hecabe, in India 2757
                                                                                                                                                                                                     Euscelis plebeja, intracellular symbionts in 5435
Eurhynchothrips ordinarius
in India 2554
                                                                                                       on grain crops
in Caucasus
                                                                                                                                                                                                     euschisti, Trissolcus
                                                                                                           in Caucasus 2121
in Romania 294
                                                                                                                                                                                                     Euschistus, on soyabean, varietal preferences of 3526
Euschistus conspersus
in USA 5364
     on Jasminum, in Delhi 2554
                                                                                                       on wheat
Eurois occultus
attractants for 5993
in Canada 5993
Europe, Scolytidae in 5757
Europe, Central
Altica spp. in 2179
Phycitidae in 4738
                                                                                                           damage caused by 2361, 3374, 5528
distribution pattern of 2873
in Iran 3365
in Romania 872
                                                                                                                                                                                                         on cotton, in California 5364
on lucerne, in California 5364
on sorghum, in California 5364
on sugar-beet, in California 5364
reproduction in 5364
                                                                                                       parasites of alternative hosts of 5112
                                                                                                                                                                                                     Euschistus servus
control of, insecticides for 4586
in USA 1484, 2415, 4586
Eurosta, on Solidago, in USA 6340
                                                                                                            defence mechanisms against
                                                                                                                                                                       3264
                                                                                                           effects of kairomones on 3861
Eurosta comma
food-plants of 6340
in USA 6340
larvae of 6340
Eurosta elsa
                                                                                                       parasitised by
                                                                                                           Alophora subcoleoptrata, in Caucasus 3264
                                                                                                                                                                                                         on soyabean
                                                                                                                                                                                                              damage caused by 456 in Louisiana 4586
                                                                                                            Clytiomya helluo, in Caucasus 3264
biology of 6340
descriptions of 6340
food-plants of 6340
in USA 6340
on Solidago juncea, in Ohio 6340
Eurosta floridensis
food-plants of 6340
in USA 6340
Eurosta reticulata
                                                                                                                                                                                                         in USA 1484
parasites of, in Kentucky 2415
                                                                                                            Scelionidae, in Caucasus
                                                                                                       Trissolcus grandis 3861
rearing of, diets for 3746
seasonal abundance of 2873
                                                                                                                                                                                                         parasitised by, Telenomus podisi of parathion-methyl in, developmental
                                                                                                       sex pheromone of, responses to components of 2872
                                                                                                                                                                                                          changes in susceptibility to 4586 predators of, in Kentucky 2415
                                                                                                  Eurygaster maura
in Greece 3367, 5520
in Hungary 3314
in Romania 294
in Spain 3366
in Yugoslavia 2874
                                                                                                                                                                                                     Euschistus tristigmus
                                                                                                                                                                                                         control of, insecticides for 4586 in USA 4586
Eurosta reticulata
biology of 6340
descriptions of 6340
food-plants of 6340
in USA 6340
                                                                                                                                                                                                         on soyabean
                                                                                                                                                                                                    on soyabean
damage caused by 456
in Louisiana 4586
parathion-methyl in, developmental
changes in susceptibility to 4586
Euschistus variolarius
in USA 2415
parasites of, in Kentucky 2415
parasitised by, Telenomus podisi 620
parasitised by, Telenomus 2415
Enseytrus concinnus
                                                                                                       on grain crops
in USA 6340
on Solidago juncea, in Ohio 6340
on Solidago sempervirens, in Ohio 6340
Eurosta solidaginis
food-plants of 6340
in USA 6340
larvae of 6340
                                                                                                           forecasting infestations of 2874 in Romania 294
                                                                                                  in Romania 294
Euryscotolinx coimbatorensis (see
Stenomesius japonicus)
Eurytermes, in Nepal 4673
eurytheme, Colias (see C. chrysotheme)
Eurytoma, parasitising, Nephopterix
eugraphella, in Punjab 1478
Eurytoma aciculata
in Poland 2996
parasitising, Dasineura brassicae, in
Poland 2996
Eurytoma brunniventris
                                                                                                                                                                                                                                                                             6200
Eurydema oleraceum
biology of 6504
                                                                                                                                                                                                     Euscyrtus concinnus
                                                                                                                                                                                                         control of, insecticides for 901 in India 901, 1408 on grasses, in Orissa 1408
     control of, insecticides for 6504
    descriptions of 6504 in USSR 6504
                                                                                                                                                                                                          on rice
     on cabbage, in USSR 6504
                                                                                                                                                                                                              damage caused by
                                                                                                                                                                                                                                                    1408
Eurydema ornatum
in Morocco 3370
parasitised by, Ooencyrtus spp.
Eurydema pulchrum, in India 798
                                                                                                                                                                                                     in India 901

Euseius citrifolius, biology of
Euseius hibisci, in USA 3061
                                                                                                   Eurytoma brunniventris
                                                                                                       distribution of 5736
                                                                                                  hosts of 5736
in Japan 5736
parasitising, Dryocosmus kuriphilus, in Japan 5736
Eurytoma martellii
in Italy 1473
parasitising, Dacus oleae, in Sardinia
                                                                      3370
                                                                                                                                                                                                     Euselasia eucerus
in Brazil 183
Eurygaster
    control of, cultural 3363
                                                                                                                                                                                                         on Eucalyptus, distribution pattern of
    on grain crops
damage caused by 3111
effects of weather on 5522
                                                                                                                                                                                                                183
                                                                                                                                                                                                    Euselasia euploea eucerus (see E. eucerus)
Eutetranychus banksi
in USA 6488
on Citrus, in Texas 6488
Eutetranychus orientalis
control of, acaricides for 2450
in Egypt 2450
in India 267, 1361, 4295
on castor
                                                                                                              1473
    on wheat
         effects of availability of water on 3363
                                                                                                   Eurytoma morio
         in Hungary 2868
in Iran 3365
                                                                                                       biology of 5397
in USSR 5397
    parasitised by, Sarcophaga dasguptai, in
Pakistan 4292
                                                                                                       parasitising, Scolytidae, in Lithuania
                                                                                                             5397
Eurygaster austriaca
                                                                                                   Eurytoma pistaciae
distribution of 5736
                                                                                                                                                                                                         on castor
    in Greece 3367, 5520
in Romania 294
                                                                                                                                                                                                             in Haryana 267
in Madhya Pradesh
in Rajasthan 1361
    in Romania 294
in Spain 3366
in Yugoslavia 2874
                                                                                                       hosts of 5736
in Japan 5736
                                                                                                                                                                                                                                                        4295
                                                                                                  nn Japan 5/36
parasitising, Dryocosmus kuriphilus, in
Japan 5736
Eurytoma plotnikovi
biology of 2944
in Tunisia 2944
on Pistacia vera, in Tunisia 2944
Eurytoma schaeferi
                                                                                                                                                                                                         on Citrus
                                                                                                                                                                                                         in Egypt 2450
in Haryana 267
in Madhya Pradesh 4295
on fig, in Madhya Pradesh 4295
on guava, in Madhya Pradesh 4295
     on grain crops
on grain crops
forecasting infestations of 2874
in Romania 294

Eurygaster hottentotus (see E. austriaca)
Eurygaster integriceps
ascorbic acid in, effects of 2699
biology of 6351
control of 6693
                                                                                                                                                                                                        on peach
in Haryana 267
in Madhya Pradesh 4295
on rose, in Madhya Pradesh 4295
on Tabernaemontana divaricata, in
Madhya Pradesh 4295
                                                                                                      sp. nov., description of 5736
in Japan 5736
parasitising, Dryocosmus kuriphilus, in
Japan 5736
         biological 626, 2120, 3364
insecticides for 670, 872, 1157, 1313,
1673, 2121, 3364, 3365, 6361, 6694
```

Eurytoma setigera (see E. pistaciae)

ubject Index		97
Sutetranychus orientalis contd.	Evolution, of insecticide resistance, by	Fabaceae, Sitona tenuis on 1763
on Ziziphus mauritiana, in Haryana 267	duplication of structural genes 1694	fabae, Aphis (Doralis)
utettix phycitis (see Hishimonus phycitis)	Evolvulus alcinoides, Messor gallus on, in	fabae, Doralis (see Aphis fabae)
Cuthyrhynchus floridanus, trail-following in	Ivory Coast 4434	fabae, Empoasca
1288	evonymellus, Yponomeuta	fabarum, Lysiphlebus
Cutrichosiphum betulae	ewingii, Persectania	fabia, Earias (see E. vittella)
sp. nov., description of 1089	exaltata, Acrida	Fabiana imbricata, Aonidomytilus espinosa
in India 1089	excarinata, Brachymeria	on, in Chile 4444
on Betula, in Sikkim 1089	excitans, Neodiprion	fagata, Operophtera
utrombidium, parasitising, Acrididae, in	exclamans, Polistes	fagi, Cryptococcus (see C. fagisuga)
Iraq 4453	exclamationis, Zygogramma	fagi, Rhynchaenus
<i>Sutromula</i> in Japan 700	Exelastis atomosa	fagisuga, Cryptococcus
taxonomy of 700	control of, insecticides for 3009, 6524, 6525	Fagopyrum esculentum (see Buckwheat) Fagus
Sutromula pariana	in India 6524, 6525	Acleris tripunctana on, in West Germany
hyperparasitised by, Mesopolobus spp., in	on Cajanus cajan	1575
British Columbia 951	in India 6524	Coleoptera on, in Czechoslovakia 5201
in Canada 951	in Tamil Nadu 6525	Cryptococcus fagisuga on, relation of
on apple, in British Columbia 951	exempta, Spodoptera	Nectria coccinea and 6602
on crab apple, in British Columbia 951	Exenterus abruptorius	Ichneumonidae associated with, in Polan
parasites of, in British Columbia 951	diapause in 2564	2075
utromula vinosa discolor	in Sweden 2564	Lepidoptera on, in New Hampshire 493
ssp. nov., description of 700	in USSR 2564	Rhynchaenus fagi on, in England 1574
in Japan 700	parasitising, Neodiprion sertifer, in USSR 2564	Silvanus bidentatus on, in England 3097
on apple, in Japan 700 on <i>Pyrus pyrifolia</i> , in Japan 700	Exeristes roborator	Fagus crenata, Diurnea spp. on, in Japan 4640
uvarroa sinhai	enzymes in 3255	Fagus grandifolia
in India 602	lipids in 3255	Lymantria dispar on
in Thailand 602	exigua, Laphygma (see Spodoptera exigua)	development of 5755
parasitising	exigua, Spodoptera (Laphygma)	feeding by 4632
Apis florea	exigua, Susumia	Fagus sylvatica
in India 602	exiguae, Hyposoter	arthropod pests of, in Netherlands 5772
in Thailand 602	exilicornis, Thrips (see T. hawaiiensis)	Cryptococcus fagisuga on, in UK 3577
uxoa	Exitianus exitiosus	insect pests of, in Italy 6592
aestivation in 710	in USA 1945	Taphrorychus bicolor on, damage caused
taxonomy of, characters for 710	on Festuca arundinacea, in Missouri 1945	by 4644
uxoa albipennis attractants for 4716	exitiosa, Synanthedon	fairchildi, Ecthrodelphax falcata, Acanthops
in Canada 4716	exitiosus, Exitianus	falcatus, Stenomacrus
uxoa bilitura	exitiosus, Nasutitermes	falcipennis, Perkinsiella
in Chile 6268	Exochomus, preying on, Saissetia oleae, in	Falco vespertinus, preying on, Cicindelidae
oviposition in 6268	Libya 5083	2827
seasonal abundance of 6268	Exochomus nigripennis	Falcon, red-footed (see Falco vespertinus)
uxoa campestris, calling in, effects of	in Libya 5083	fallacis, Amblyseius (see Neoseiulus fallacis
temperature on 6009	preying on, Saissetia oleae, in Libya	fallacis, Neoseiulus (Amblyseius)
uxoa declarata, calling in, effects of	5083	falli, Conoderus
temperature on 6009	Exochomus quadripustulatus diapause in 3506	Fannia, in cattle dung, intraspecific competition in 3423
in Chile 6268	in France 2457	fantoma, Urocerus
oviposition in 6268	in Greece 3506	farinae, Dermatophagoides
seasonal abundance of 6268	oxygen consumption in	β-Farnesene (see 1,6,10-Dodecatriene, 7,11
uxoa messoria	effects of temperature on 3804	dimethyl-3-methylene-)
attractants for 5993	not affected by light 3804	Farnesenic acid (see 2,6,10-Dodecatrienoic
bibliography 3826	preying on	acid, 3,7,11-trimethyl-)
in Canada 5993	Saissetia oleae	Farnesic acid (see 2,6,10-Dodecatrienoic
in USA 6260	and biological control using	acid, 3,7,11-trimethyl-)
on sunflower, in North Dakota 6260	in France 2457 in Greece 3506	Farnesol (see 2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-)
luxoa ochrogaster in USA 6260	Exochus tibialis	Farnesyl methyl ether (see 2,6,10-
on sunflower, in North Dakota 6260	biology of 3597	Dodecatriene, 1-methoxy-3,7,11-
uxoa rockburnei, calling in, effects of	cleptoparasitism by 3597	trimethyl-)
temperature on 6009	in Denmark 3597	farris, Acarus
uxoa tristicula	parasitised by, Mesochorus sylvarum, in	fasciana, Pammene
attractants for 686	Denmark 3597	fasciata, Adoxophyes orana
control of, mating disruption for 686	parasitising, Epinotia tedella, in Denmark	fasciata, Cheilosia
in Canada 686	3597 seasonal abundance of 3597	fasciata, Phanerotoma fasciatus, Aeolothrips
Juzophera bigella biology of 6459	Exoporia, food preferences in, evolution of	fasciatus, Attagenus
in Italy 6459	5434	fasciatus, Conocephalus
on fruit trees, in Italy 6459	Exorista	fasciatus, Dagbertus
taxonomy of, characters distinguishing	diflubenzuron in, toxicity of 4642	fasciatus, Dysdercus
Cydia pomonella and 6459	parasitising, Lymantria dispar, in France	fasciatus, Oncopeltus
uzophera cinerosella	4642	fasciculatus, Araecerus
distribution of 1905	Exorista larvarum	fascifrons, Macrosteles
food-plant specificity in 1905	diflubenzuron in, toxicity of 4642	fastidiosa, Dasineura
life history of 1905	in France 4642	Fats
on Artemisia absinthium, damage caused	parasitising, <i>Lymantria dispar</i> , in France 4642	in <i>Dysdercus cingulatus</i> , effects of antibiotics on 3190
by 1905 parasitised by, <i>Bithia jacentkovskyi</i> 1905	EXP, against, Eutetranychus orientalis, on	in Eurygaster integriceps, consumption o
taxonomy of 1905	Citrus 2450	reserves of 756
uzophera osseatella	exsanguis, Zelus	in Metopolophium dirhodum, and in oats
in Egypt 2500	exsul, Conoderus	874
on tomato, in Egypt 2500	externa, Chrysopa	in Neotermes bosei diet, digestion of
uzophera perticella	externa, Fiorinia	6329
in India 5706	externus, Acarapis	in rape seeds, not affected by
on eggplant, damage caused by 5706	exul, Leschenaultia	Ceutorhynchus napi 2994 in Spodoptera littoralis, effects of
vanescens, Trichogramma	Eyprepocnemis plorans	insecticides on 4362, 4363
vansi, Tetranychus Vibrissa vittata	in Egypt 1013 on soyabean, in Egypt 1013	in Zonocerus variegatus eggs, utilisation
in Japan 2569	Eysarcoris guttiger, in India 798	4961
parasitising, Dinorhynchus dybowskyi, in	Eysarcoris trimaculatus	Fatty acids
Hokkaido 2569	in Australia 6421	in Antheraea mylitta, developmental
visect (see Thiocyclam)	on rice, in Western Australia 6421	changes in 1237

```
Fatty acids contd.
                                                                                                                    Fenitrothion contd.
                                                                                                                                                                                                                                       Fenitrothion contd.
                                                                                                                                                                                                                                           in Rhinyptia laeviceps, sex differences in
susceptibility to 5263
in Rhopalosiphum maidis, not affecting
                                                                                                                         against contd.
      in Antheraea mylitta pupal fat-body
                                                                                                                               Bucculatrix pyrivorella, on pear 3482
             4470
                                                                                                                               Callosobruchus chinensis, in Vigna
mungo seeds 5227
      in Attagenus unicolor cuticle,
              developmental changes in 40
                                                                                                                                                                                                                                                    hemocytes 2696
      in Ceratitis capitata, developmental
                                                                                                                               Choristoneura fumiferana, on Abies
              changes in 4789
                                                                                                                                                                                                                                                  not affecting germination 3905
                                                                                                                                                                                                                                           not affecting germination 3905 stimulating reproduction by Nilaparvat, lugens 3928 in tomato, residues of 5702 in Tribolium castaneum, effects of weight on susceptibility to 5822 in Vicia faba seeds
      in Ceratitis capitata triglycerides,
stereospecific distribution of 5346
                                                                                                                               Chortoicetes terminifera 6276, 6280
                                                                                                                               in pastures 4529, 6279
Conopia myopaeformis, on apple 6466
Crocidolomia binotalis, on mustard
     in Exeristes roborator, effects of dietary
glucose on 3255
in Galleria mellonella hemolymph, effects
                                                                                                                                       3221
      of temperature on 1803
in grain mites 3755
                                                                                                                               Cydia delineana, on hemp 3047
C. molesta, on peach 394
C. pomonella 6695
                                                                                                                                                                                                                                            effects on composition of 4401 residues of 4397 in wheat, residues of 6363
                                                                                                                              C. motesta, on peach 394
C. pomonella 6695
on apple 381
Cyrtacanthacris guttulosa 822
Dacus cucurbitae 1500
D. oleae, on olive 1477
Diacrisia obliqua, on sugar-beet 5684,
     in Heliothis zea, effects of Nosema
heliothidis on 1131
in Icerya purchasi, incorporation of
dietary acetate into 4753
                                                                                                                                                                                                                                            in wheat grain, effects on composition of 4401
      in Lasioderma serricorne cuticle 5331
                                                                                                                                                                                                                                            resistance to, in
                                                                                                                                                                                                                                                  Ephestia cautella, in New South Wales
      in maize grain
     effects of insect pests on 4663 role in susceptibility to Sitophilus zeamais of 6649 in rape seeds, not affected by Ceutorhynchus napi 2994 in sunflower-seed oil, not affected by insect damage to seeds 3681
                                                                                                                                                                                                                                                          1110
                                                                                                                               Dicladispa armigera, on rice 6373
Dolichotetranychus floridanus, on
                                                                                                                                                                                                                                                  Laodelphax striatella, in Kyushu 2912
Plodia interpunctella, in New South
Wales 1110
                                                                                                                               pineapple 2983
Drosophila melanogaster 2636
Enarmonia formosana, on apple 6466
                                                                                                                                                                                                                                                  Spodoptera littoralis 224, 6710
                                                                                                                                                                                                                                                       role of esterases in 57
                                                                                                                              Ephestia cautella, in stored grain 363
E. kuehniella 1110
Eriosoma lanigerum, on apple 5071
Eurygaster integriceps, on grain crops
3365
             insect damage to seeds 3681
                                                                                                                                                                                                              3635
                                                                                                                                                                                                                                            with bioresmethrin
insect damage to seeds 3681
in sunflower seeds
effects of insect damage on 2100
effects of Pentatomidae on 6558
methyl ester, insecticidal activity of 5266
fausta, Rhagoletis
feae, Odontotermes
fecundus, Ooencyrtus
Feedstuffs, mites in, extracting of 5220
Felis domesticus (see Cat)
Feltia subgothica, complex of, bibliography
3826
Feltia subgothica, complex of, bibliography
3826
                                                                                                                                                                                                                                                  against
                                                                                                                                                                                                                                                      Rhyzopertha dominica, in stored
grain 3655
Sitophilus oryzae, in stored grain
3655
                                                                                            5266
                                                                                                                              Gryllodes sigillatus 6711
Hypera postica, on lucerne 4927
Melolontha hippocastani, on Quercus
                                                                                                                                                                                                                                                       Tribolium castaneum, in stored grain
                                                                                                                                                                                                                                                              3655
                                                                                                                                                                                                                                            with dimethoate, against, Cydia delineana,
on hemp 3047
with malathion
                                                                                                                                       5766
                                                                                                                               Myllocerus discolor 3048
                                                                                                                               Mythimna separata, on rice 3950,
                                                                                                                                                                                                                                                  against
                                                                                                                               Neodiprion swainei, on Pinus 2570
Nilaparvata lugens 6719
on rice 3963, 3970
                                                                                                                                                                                                                                                      Amrasca devastans, on okra 1492
Aphis gossypii, on okra 1492
Athalia lugens 2637
Contarinia sorghicola, on sorghum
         3826
 Feltia subterranea
     control of, traps for 5646 in USA 5646
                                                                                                                               Pectinophora gossypiella, on cotton
                                                                                                                                                                                                                                     3976
Earias spp., on okra 1492
in sorghum, toxicity of 3976
with oil emulsion, against, Bostrichidae,
on grapevine 942
with phosphamidon, against,
Tetranychidae, on bean 1505
with protein hydrolysate 1477
Fennel (Foeniculum vulgare)
Cavariella aegopodii on, in UK 5110
Hyadaphis coriandri on, in Spain 3780
Loxostege sticticalis on, in Bulgaria 2504
Otiorhynchus cribricollis on, in Italy 992.
Papilio machaon on, in Bulgaria 2504
Spodoptera litura on, in Andhra Pradesh
3874
Systole albipennis on, damage caused by
      on lettuce, in Arizona 5646
                                                                                                                                                                                                                                                              3976
 femoralis, Hercinothrips
femoratus, Cimbex
                                                                                                                               pests of lucerne 5048
pests of stored grain 3130, 4660
Plodia interpunctella 1701
 femurrubrum, Melanoplus
Fenarimol (\alpha-(2-chlorophenyl)-\alpha-(4-
                                                                                                                               Pyrilla perpusilla, on sugar-cane 3879
      chlorophenyl)-5-pyrimidinemethanol) in Conotrachelus nenuphar, no effects
                                                                                                                               Rhinyptia laeviceps 5263
Sitobion avenae, on grain crops 6349
Sitophilus granarius 6173
             from 959
                                                                                                                               S. oryzae, in stored grain 3635
S. zeamais, in maize grain 5813
Sitotroga cerealella, in maize grain
 Fenbutatin oxide (hexakis(2-methyl-2-phenylpropyl)distannoxane)
           Acarapis externus, on Apis mellifera
3840
                                                                                                                                      5813
                                                                                                                               Smicronyx fulvus, on sunflower 6259
Sogatella furcifera 6719
           3840
Panonychus ulmi
on apple 376
on grapevine 5589
Pheidole megacephala 5264
Tetranychus cinnabarinus 3817
T. urticae 229
on Citrus 4569
                                                                                                                              Stomopteryx subsecivella, on groundnut 6526
                                                                                                                               Sylepta derogata, on cotton 2538
Taeniothrips spp., on apple 5070
Tarsonemus pallidus, on strawberry
                                                                                                                                                                                                                                            Systole albipennis on, damage caused by 2504
                                                                                                                                                                                                                                      2504

Fennoscandia

Betula spp. in, insect pests of 5150

Blattaria in 139

Dermaptera in 139

Orthoptera in 139

Fenpropanate (see Fenpropathrin)

Fenpropathrin (cyano(3-phenoxyphenyl)methyl 2,2,3,3-tetramethylcyclopropanecarboxylate)

against
     on grapevine 5589
on strawberry 1440
in Leptomastix dactylopii, toxicity of
2332
                                                                                                                                       6450
                                                                                                                        6450
Thrips tabaci, on tobacco 1554
Tribolium castaneum 5810
in stored grain 3635
Xyleborus dispar, on hazel 6455
Zygina maculifrons, on rice 336
in aerial sprays
collection by flying locusts of 6277
off-target fallout of 5739
recovery on vertical surfaces of 6278
in Apis mellifera, toxicity of 678
in cabbage, residues of 2474
in Cales noacki, toxicity of 3493
in Coccinella septempunctata, toxicity of
 in Phytoseiulus persimilis, toxicity of 229
Fenchlorphos (O,O-dimethyl O-(2,4,5-
        trichlorophenyl) phosphorothioate)
                                                                                                                                                                                                                                            against
     Lepisma saccharina, in dwellings 3837 pests and diseases of apple 5603 Sitobion avenae, on grain crops 6349 with benomyl, in apple, toxicity of 5603 with bromophos, in apple, toxicity of 5603
                                                                                                                                                                                                                                           Acrididae 5980
pests of apple 1976
in apple orchards, effects on predatory
                                                                                                                                                                                                                                                   mites of 1976
                                                                                                                                                                                                                                           in insects, metabolism of 656 in plants, metabolism of 656
                                                                                                                         in Coccinella septempunctata, toxicity of
              5603
                                                                                                                                1712

    5003
    with pesticides, compatibility of 5603
    β-Fenchol (see Bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl-)
    fenestralis, Diadegma
    Fenitrothion (O,O-dimethyl O-(3-methyl-4-nitrophenyl) phosphorothioate)

                                                                                                                         in cotton, effects of rain on 5719 in Drosophila melanogaster, effects of
                                                                                                                                                                                                                                           in soil, degradation of 656 in vertebrates, metabolism of 656
                                                                                                                                 application site on susceptibility to 2636
                                                                                                                                                                                                                                           insecticidal activity of enantiomers of 655
                                                                                                                        in forest soils, degradation of 3226
in forests, effects on birds of 1582
in Gryllodes sigillatus, effects of crowding
on susceptibility to 6711
                                                                                                                                                                                                                                       Fensulfothion (O,O-diethyl O-[4-
(methylsulfinyl)phenyl]
phosphorothioate)
      against
                                                                                                                                                                                                                                          phosparation against Ataenius spretulus, in sports turf 6208 Coccus viridis, on mandarin 5634 Costelytra zealandica, in pastures 1422 Delia platura, on Phaseolus vulgaris 6230
          Acantholyda pinivora, on Pinus 576
Amrasca biguttula, on cotton 5719
Antestiopsis intricata, on coffee 499
A. orbitalis, on coffee 499
Anthonomus pomorum, on apple 64
Aphis gossypii, on cotton 6563
Athalia lugens 2637
Brevennia rehi, on rice 6398
Breviorym pressicae on cabbage
                                                                                        5766
                                                                                                                         in lentils
                                                                                                                              effects on composition of 4401 residues of 4397
                                                                                                                         in lucerne fields, effects on pollinators of
                                                                                                                                 5048
                                                                                                                         in Phaseolus vulgaris seeds effects on composition of residues of 4397
                                                                                                                                                                                                                                                 Diabrotica spp. 6253
Graphognathus peregrinus
Myllocerus discolor 3048
            Brevicoryne brassicae, on cabbage 2474
                                                                                                                         in Pinus banksiana, persistence of 2570
                                                                                                                                                                                                                                                  Nephotettix virescens, on rice
```

379

cts of

te)

05

558

77,

erry

rvata

43,86,

ега

4386.

4390

on

ıbject Index
ensulfothion contd.
against contd. Nilaparvata lugens, on rice 5555
Orseolia oryzae, on rice 328, 237
Scirpophaga incertulas, on rice 2 Tribolium castaneum 5810
in beet, residues of 5090
in cabbage, residues of 5090
in carrot, residues of 5090 in potato, effects of 2029
in rice-fields, effects on parasitic inse
328 in spinach, residues of 5090
enthion (O,O-dimethyl O-[3-methyl-4
(methylthio)phenyl] phosphorothioa against
Achaea janata, on castor 5710
Amrasca biguttula, on castor 571 A. devastans, on okra 4017
Anastrepha ludens, on mango 23
Anomala albopilosa, on sugar-cane 2863
Assuania spp., on banana 1996
Athalia lugens 2637
Brevennia rehi, on rice 6398 Crocidolomia binotalis, on mustare
3221
Cysteochila ablusa, on Bauhinia Dacus cucurbitae 1500 D. oleae, on olive 1475, 1476, 14
D. oleae, on olive 1475, 1476, 14 2458
Dichocrocis punctiferalis, on mulb
378 Dicladispa armigera, on rice 637.
Earias spp., on okra 4017
Eurygaster integriceps, on grain cr 3365
Exelastis atomosa 3009
Hellula undalis, on cabbage 5650 Hydrellia philippina, on rice 3956
Leptocorisa acuta, on rice 6381
Leucinodes orbonalis, on eggplant 5705
Myllocerus discolor 3048
Opogona sacchari, on banana 649 pests of Vigna radiata 433
Taeniothrips spp., on apple 5070 Tribolium castaneum 5810
in Apis mellifera, toxicity of 678
in banana
residues of 184 toxicity of 6498
in Opius concolor, toxicity of 204
in rice not affecting germination 3905
stimulating reproduction by Nilapa
lugens 3928 with dimetilan, against, Dacus oleae,
olive 2458
with malathion, against, Leucinodes orbonalis, on eggplant 5705 with protein hydrolysate 1475, 1476
with protein hydrolysate 1475, 1476
with Verticillium lecanii, against, Nilaparvata lugens, on rice 339
Nilaparvata lugens, on rice 339 entin acetate ((acetyloxy)triphenylstar
nane)
with acephate, and maneb, against, Spodoptera littoralis, on cotton
4390
with maneb, antifeedant for, Spodopi littoralis, on cotton 4386, 4390
with maneb, and phosfolan, against,
Spodoptera littoralis, on cotton 4390
with maneb, and profenofos, against,
Spodoptera littoralis, on cotton with maneb, and tetrachlorvinphos,
against, Spodoptera littoralis, on cotton 4386, 4390
with profenofos, not compatible 438 entin hydroxide (hydroxytriphenylsta
entin hydroxide (hydroxytriphenylsta: nane)
antifeedant for
Spodoptera littoralis 4371 on cotton 4386, 4390

resistance to, in, Spodoptera littoralis, development of 4704 with acephate, against, Spodoptera littoralis, on cotton 4386, 4390 with phosfolan

against, Spodoptera littoralis, on cotton

Fentin hydroxide contd. with phosfolan contd. antagonistic 4390 with profenofos against, Spodoptera littoralis, on cotton not compatible 4386 with tetrachlorvinphos, against, Spodoptera littoralis, on cotton 4386, 4390 Fenugreek (Trigonella foenum-graecum) arthropod pests of, in Egypt 4357 arthropod pests of, in Egypt 4357

Spodoptera litura on, in Andhra Pradesh Fenusa pusilla
control of, biological 4627
in Canada 4627
on Betula, in circumpolar zone 5150
Fenvalerate (cyano(3-phenoxyphenyl)methyl
4-chloro-a-(1-methylethyl)benzeneacetate) against Adisura atkinsoni, on Lablab purpureus 426 Callosobruchus chinensis, in Vigna radiata seeds 5832 Diabrotica longicornis 2635 Earias spp., on cotton 5126 E. insulana, on cotton 227 Eriosoma lanigerum, on apple Euproctis melania 3798 Heliothis spp., on cotton 3552 H. armigera on cotton 5126 on Lablab purpureus
H. virescens 2310, 4069
on cotton 4060 on cotton 4060

H. zea 4069
on Cicer arietinum 2302
Hylobius spp., on forest trees 576
Myzus persicae, on potato 3535
Ostrinia nubilalis, on potato 4906
Oulema melanopus 2635
Contraophera gassyniella, on cotton 5769 Pempherulus affinis, on cotton 227, 5126

Pempherulus affinis, on cotton 2537 pests of apple 1976
pests of okra 414
pests of stored grain 3635
Psylla pyricola, on pear 48
Spodoptera exigua 2310 4888 on Cicer arietinum 2302 on cotton 3552 on potato 4906 S. frugiperda 5265 on maize 4906 S. littoralis 226, 2634, 4389 S. Intorains 220, 263-4, 4359
Tetranychus cinnabarinus 3817
T. urticae 965, 1155
Trichoplusia ni, on kale 4906
Viteus vitifoliae, on grapevine 1965
chemical properties of 4153
conformation of 658
development of 1697 in Apanteles marginiventris, toxicity of 3547 in apple orchards, effects on predatory mites of 1976 in Campoletis sonorensis, toxicity of 4069 in Chrysomelidae, toxicity of 6216 in Coccinella undecimpunctata, toxicity of 2634 in Coccinellidae, toxicity of 2635, 6216 in cotton, effects on fibre quality of 22 in Geocoris punctipes, toxicity of 3547 in Hippodamia convergens, toxicity of 3547 in insects, metabolism of 656 in Laodelphax striatella, effects of posttreatment temperature on susceptibility to 5259 in Neoseiulus fallacis, toxicity of 965 in Panonychus ulmi, toxicity of 5886 in parasitic Hymenoptera, toxicity of 62.16 in plants, metabolism of 656 in *Plutella xylostella*, effects of post-treatment temperature on susceptibility to 5259 in Podisus maculiventris, toxicity of

in soil, degradation of 656

979 Fenvalerate contd. in Spodoptera litura, effects of posttreatment temperature on susceptibility to 5259 in Tetranychus urticae azinphos-methyl resistance correlated with susceptibility to 1155 effects on feeding behaviour of 1976 toxicity of 5886 in Tetrastichus julis, toxicity of 2635 in Typhlodromus occidentalis, toxicity of 965 in Typhlodromus pyri, toxicity of 965 in vertebrates, metabolism of 656 insecticidal activity of 4153, 5958 insecticidal activity of enantiomers of 655 photodegradation of 4395 physical properties of 4153 resistance to, in, Spodoptera littoralis 4379 synergists for 226 formamidines as 4069 piperonyl butoxide as 3635 temperature as affecting 4395 with amitraz, against, *Heliothis* spp., on cotton 3552 with Bacillus thuringiensis, against, Trichoplusia ni, on kale 4906 with chlordimeform against Heliothis virescens 4069 H. zea 4069 in Campoletis sonorensis, toxicity of 4069 with insecticides, interactions of 4389 with methomyl, against, Heliothis spp., on cotton 3552 fera, Psylla tera, Psylla
ferganensis, Eucoccidophagus
fergusoni, Ceracia
Fern, Pinnaspis aspidistrae on, in New
Zealand 160
ferrealis, Hypsipyla
Ferriamicide (see Mirex)
Ferrisia viscusts Ferrisia virgata descriptions of 4743 food-plants of 2350 in India 2350 life history of 5357 on Parthenium hysterophorus 2852 on Physalis minima, in Andhra Pradesh 2350 parasites of 5357 predators of 5357 ferrugata, Leptopterna ferrugineus, Cryptolestes ferrugineus, Plocaederus ferrugineus, Rhynchophorus **Fertilizers** environmental contamination with 5253 for Abies balsamea, effects on Choristoneura fumiferana of 5777 for cassava, effects on Mononychellus tanajoa of 5696 for castor, effects on Samia cynthia of 4369, 4370 for coffee, effects on Antestiopsis of 499 for cotton, effects on pest control of for grasses, effects on insect fauna of 347 for grassland, effects on invertebrates of 3431 for Litchi chinensis, effects on Argyroploce leucaspis of 6497 maize, effects on Anaphothrips obscurus of 315 for pear, effects on Aphanostigma piri of 2965 for Quercus, effects on mites of 3061 for rice. effects on Cnaphalocrocis medinalis of 3933 effects on Diatraea saccharalis of effects on Dicladispa armigera of 642 effects on Nephotetitix on 5554 effects on Nilaparvata lugens of 341, 1401, 2384, 2402, 3943, 5554, 6383 effects on Scirpophaga incertulas of 3404 for sorghum, effects on Atherigona soccata of 5042

Fertilizers contd. for sugar-cane, effects on Diatraea of 1383 in agricultural soils, not affecting arthropod fauna 2758 in soil, effects on fauna of with insecticides 6361, 6694 festerianus, Hypogeococcus festinus, Spissistilus festiva, Euaresta festiva, Lampra festiva, Pyronota festivus, Carabus auronitens festivus, Chrysocarabus auronitens (see Carabus auronitens festivus) Festuca arundinacea Cicadellidae on, in Missouri 1945 Costelytra zealandica on, tolerance to 5872 Festuca pratensis, Oscinella frit on, damage caused by 1369 Festuca rubra Leptopterna ferrugata on, damage caused 348 by Megaloceroea recticornis on, damage caused by 348 festucae, Metopolophium feytaudi, Matsucoccus ficta, Bactromyiella fictrix, Tinea **Ficus** Chloropulvinaria psidii on, in Tamil Nadu 6582 os82
pollinators of, coevolution of 4001
Thysanoptera on, galls of 4946
Ficus bengalensis, Diacrisia obliqua on, not developing 1820
Ficus capensis, Andaspis formicarum on, in South Africa 399
Ficus carica (see Fig) ficus, Chrysomphalus (see C. aonidum) Ficus natalensis, Saissetia nigrella on, in South Africa 26
Ficus religiosa, Eotetranychus hirsti on, in
Madhya Pradesh 4295 Field crops arthropod pests of, in Tasmania 5416 pest control on, pesticides for 1687, 2629, 2630, 2631

Tetranychidae on, in Rajasthan 1361

Fields, Araneae in, review 5476 Fig (Ficus carica) Asterolecanium pustulans on, in Egypt 4400 Blastophaga psenes on, in Turkey 4000 Carpophilus spp. on, colonisation by 3999 Ceroplastes rusci on, in Turkey Ectomyelois ceratoniae on 706 Eotetranychus hirsti on, in Madhya Pradesh 4295 Eriophyidae on, in New South Wales 1957 Eutetranychus orientalis on, in Madhya Pradesh 4295 Hemiberlesia lataniae on, in Egypt 4400 pollinators of, coevolution of 4001 pollinators of, coevolution of Fig (dried fruit) Ephestia calidella in, imported into Norway 4111 E. figulilella in, imported into Norway 4111 Fig orchards, Typhlodromus dossei in, in New South Wales 1957 figulilella, Ephestia biological control in 4696 Nilaparvata lugens in, on rice 2381 Scolytidae in 4724 fijiensis, Stethorus Filamentosus, Nipaecoccus
Filaree red leaf virus 1504
Filarioidea, in, Culicidae, avoidance of immune responses by 5231 filiformis, Coeloides filipjevi, Blaesoxipha Filippia follicularis, on olive, in Mediterranean region 3506 Filippia oleae, on olive, in Mediterranean region 3506 fimbriata, Noctua fimbriata, Plautia fimbriolata, Mahanarva

fimetaria, Folsomia fimetarius, Aphodius Finch, house (see Carpodacus mexicanus) Finland agricultural entomology in 4717, 5280
Alphitobius diaperinus in 3786 Aphididae in, natural enemies of 5953 Araneae in 800 4476 arthropod pests in Attagenus woodroffei in, in dwellings 2600 Betula spp. in, insect pests of 5150 Biston betularia in 3756 Blattaria in 139 Brachycera in 5403 Carpophilus hemipterus in 3 Cerapteryx graminis in 2178 Cnephasia spp. in, natural enemies of 2264 Coleophora plumbella in 3985 Coleoptera in, in cattle dung 1303 Dermaptera in 139 Dermaptera in 139
Dioryctria abietella in, on Picea 556
D. mutatella in, on Pinus 556
D. schuetzeella in, on Picea 556
entomological literature from 5997
Formica spp. in 2807
F. aquilonia in 129
F. polyctena in 129
Formicidae in 133, 2801
Gastropacha quercifolia in 5771
Ichneumonidae in 3860
Lepidoptera in 159, 3827, 4853, 5411
Liposcelis entomophilus in 3784
Microlepidoptera in 2270 Microlepidoptera in 2270 Nematocera in 5403 Odontopera bidentata in 3756
Orthoptera in 139
Pegomya spp. in, on fungi 5647
P. hyosyami in, on sugar-beet 4591 pesticide sales in 6701 pine wood in, insect pests of 4101, 4102 plant pests in 1903 Reesa vespulae in 3785 spruce wood in, insect pests of 4101, 4102 Syrphidae in 3827 Sypnidae in 3827
vegetable crops in, insect pests of 1490
Yponomeuta evonymellus in, natural
enemies of 257, 2264, 3569
finlaysoni, Mesopolobus
Florinia externa
control of insecticides for 3608 timing of 3608 dispersal of 3608 in USA 3608, 4920 on Tsuga, in Connecticut 4920 on Tsuga canadensis, in Connecticut 3608 parasites of in Connecticut 3608 seasonal abundance of population dynamics of 4920 predators of in Connecticut 3608 seasonal abundance of 3608 seasonal abundance of 3608 Fiorinia himalaica, taxonomy of 4085 Fiorinia horii
in Japan 4085
taxonomy of 4085
group of, taxonomy of 4085
Fiorinia hymenauthis
in Japan 4085
taxonomy of 4085
Fiorinia nachiensis Fiorinia nachiensis in Japan 4085 taxonomy of 4
Fiorinia odaiensis 4085 in Japan 4085 taxonomy of 4085 Fiorinia sikokiana in Japan 4085 taxonomy of Fiorinia theae in India 1057 on Citrus, in Assam 1057 on tea, in Assam 1057 parasites of, in Assam 1057 predators of, in Assam 1057 Fir (see Abies) 1057 Fir, alpine (see Abies lasiocarpa)

Fir, balsam (see Abies balsamea) Fir, Douglas (see Pseudotsuga menziesii) Fir, grand (see Abies grandis)
Fir, silver (see Abies alba) Fir, subalpine (see Abies lasiocarpa) Fir, white (see Abies concolor) firmata, Thera fiscellaria, Lambdina DDT analogues in, accumulation of 3225 in forests, effects of DDT on 3102 in rice-fields, effects of insecticides on mirex in, residues of 643 preyed on by, Hemiptera 3781

Fish, dried, insect pests of, imported into
Nigeria 6644 Fish meal diet component for Dermestes haemorrhoidalis 785 D. peruvianus 785
Dichocrocis punctiferalis 4877
Fish ponds, Heteroptera in, in Hungary 3349 fisheri, Aphytis
Fishing, insecticide pollution as affecting
6726 Flamboyant (see Delonix regia) flammea, Panolis Flatidae in New Zealand 4210 taxonomy of 2161 flava, Anomis flava, Hoplocampa flava, Signiphora flava, Sipha flava, Trichogrammatoidea flavago, Gortyna flaveola, Scaptomyza flaveolatum, Agrypon flaveolus, Anagru flavescens, Banchus flavibasis, Delia flavicincta, Campoletis flavicinctus, Haplothrips flavicollis, Kalotermes flavicornis, Halticoptera flavicornis, Prolasius flavicornis, Prolasius
flavicoxis, Apanteles
flavinode, Praon
flavipes, Apanteles
flavipes, Gryon
flavipes, Luperus
flavipes, Pleuroloma
flavipes, Xylocoris
flavitestacea, Phanerotoma
flavitobialis, Ormyrus
flaviventris flaviventris, Acropiesta flaviventris, Pachnoda sinuata Flavobacterium, in, Anthonomus grandis, in USA 3546 flavocapitata, Eoeurysa flavolineata, Xanthopimpla flavolineata, Xanthopimpla
flavomaculata, Genyodonta
flavomaculata, Lioadalia
flavoorbitalis, Trathala
flavopalliata, Signiphora
flavopicta, Deois (see Tomaspis flavopicta)
flavopicta, Tomaspis (Deois)
flavus, Cynipencyrtus
flavus, Lasius
flavus, Thrips
Flax (Linum usitatissimum)
Aphthona euphorbiae on. damage caused Aphthona euphorbiae on, damage caused by 3702 Dasineura lini on, effects of sowing date on 2550 Heliothis punctigera on, in New South Wales 4608 Longitarsus parvulus on, damage caused by 3702 pest control on, biological 5952 Flea beetle (see Chrysomelidae)
flechtmanni, Pygmephorus (see Siteroptes flechtmanni flechtmanni, Siteroptes (Pygmephorus) fleschneri, Agistemus fletcheri, Helicoverpa (see Heliothis fletcheri) fletcheri, Heliothis (Helicoverpa) flexorium, Agrypon (Trichionotus)

exorius, Trichionotus (see Agrypon	Florida contd.	Fomoria pteliaeella contd.
flexorium)	Scapteriscus contd.	taxonomy of, transferred from Nepticula
occosus, Aleurothrixus ooding, of rice-fields, effects on	S. vicinus in 2411 Scarabaeidae in, on Cynodon 3445	2168 Forefor (O ethyl 5 phonyl
Nilaparvata lugens of 2384, 2402	Schistocerca americana in 4426	Fonofos (O-ethyl S-phenyl ethylphosphonodithioate)
oralis, Delia (Hylemya)	Spodoptera frugiperda in 77, 3886, 4505	against
oralis, Hylemya (see Delia floralis)	on Cynodon dactylon 1423	Agriotes spp., on potato 1022, 3811
orea, Apis	Tetralopha robustella in	Agrotis ipsilon 6168
oreus, Thrips orida	natural enemies of 5161 on <i>Pinus</i> 5161	Chaetocnema confinis, on sweet potato 3026
Aleurocanthus woglumi in 1465, 4005,	Tetranychus urticae in, on strawberry	Conoderus falli, on sweet potato 3026
4564	1440	Ctenicera pruinina, on potato 3536
on <i>Citrus</i> 975, 2979, 3488, 3502, 4565, 4566, 4567	Toumeyella parvicornis in, on Pinus	Cyclocephala parallela, on Cynodon
Aleurodicus dispersus in 4280	1086	3445
Aleuroplatus vaccinii in, on blueberry	Trichoplusia ni in, on cabbage 2002 Vespula squamosa 2252	Delia brassicae on brussels sprouts 216
2427 Aleurothrixus floccosus in 4280	Viteus vitifoliae in, on grapevine 372	on radish 421
Anthonomus grandis in, on cotton 482	floridae, Acanthoscelides	D. platura, on Phaseolus vulgaris 6230
Anticarsia gemmatalis in	floridanus, Artipus floridanus, Dolichotetranychus	Diabrotica spp. 6253
on groundnut 5665 on soyabean 5665	floridanus, Euthyrhynchus	Graphognathus peregrinus 2639 Limonius canus, on potato 3536
Aphelinidae in 1349	floridanus, Holepyris	Mythimna unipuncta, on maize 4900
Arge humeralis in, on Rhus radicans	floridensis, Ceroplastes	Oscinella frit, on maize 5536
4485	floridensis, Eurosta	Pheidole megacephala 5264
Artogeia rapae in natural enemies of 1000	florus, Colpoclypeus Flour	Psila rosae, on carrot 217 Tenebrionidae, on tobacco 1052
on cabbage 2002	Corcyra cephalonica in, feeding by 6639	in Acalymma vittatum, detoxification of
Auchenorrhyncha in, on palm trees 5583	mites in, extracting of 5220	4158
Chenopodium ambrosioides in, predatory arthropods associated with 2367	pest control in, beta-irradiation for 3648 Plodia interpunctella in, in USSR 3128	in Diabrotica, detoxification of 4158 in soil
Chrysanthemum spp. in, arthropod pests	Fluidized bed, for heating grain to kill	effects of 2141
of 4613	insects 3642	effects on carbofuran degradation of
Citrus in, pest control on 6481	fluitantis, Apanteles	6252
Cixiidae in 20 Conchaspis angraeci in, on ornamental	Fluometuron (N,N-dimethyl-N'-[3- (trifluoromethyl)phenyl]urea)	residues of 6251 insecticidal activity of 5523
plants 506	determination of 5971	with triazophos, against,
Contarinia sorghicola in, natural enemies	Fluorescent antibody technique, for	Polyphagotarsonemus latus, on cotton
of 919 Curculionidae in, on <i>Citrus</i> 2971	diagnosing American foulbrood of honeybees 1624	Food factories, ant control in, insecticides
Dagbertus fasciatus in, on avocado 4558	FMC 27289, against, Cnaphalocrocis	for 3118
D. olivaceus in, on avocado 4558, 4559	medinalis, on rice 3926	Food stores, Monomorium pharaonis in, in
Danaus plexippus in 2249 Dendroctonus frontalis in, natural enemies	by Nilaparvata lugens of 3927	Poland 827 Foodstuffs
of 2578	FMC 35001 (see Carbamic acid,	Anobiidae in, in Israel 2087
Dialeurodes citri in	[(dibutylamino)thio]methyl-, 2,3-dihydro-	arthropod pests of, in UK 5801
on Citrus 979, 4565	2,2-dimethyl-7-benzofuranyl ester)	Corcyra cephalonica in, feeding by 6639
on Ligustrum 979 on Viburnum 979	FME (see 2,6,10-Dodecatriene, 1-methoxy-3,7,11-trimethyl-)	Formicidae in, in Bermuda 3837 mites in, extracting of 5220
D. citrifolii in 4280	fockeui, Aculus	pest control in 5801
Diaprepes abbreviatus in, on Citrus 2701	Fodder beet (see Mangel)	fumigants for 6650
Dysmicoccus neobrevipes in, on Furcraea 1035	Chortoicetes terminifera on, in New South	pesticides in residues of 3210, 3212
Eriocraniella spp. in, natural enemies of	Wales 2793	classification of 3211
6627	pest control on, book 2621	setting of maximum residue levels of
Eriophyes aloinis in 5141 E. quercerinus in, on Quercus 2656	foedalis, Nymphula foedana, Olethreutes (see O. concinnana)	3209 Thylodrias contractus in 5799
Eudiagogus spp. in, on Sesbania 1909	foenella, Epiblema	Forage, insect pests of, in UK 4721
Frankliniella fusca in, on groundnut	foeniculi, Systole (see S. albipennis)	Forage crops
4039 Hellula rogatalis in, on cabbage 1000	Foeniculum vulgare (see Fennel) foetens, Megaponera	Acyrthosiphon pisum on, in New Zealand
Hemiberlesia lataniae in 5142	Folbex (see Chlorobenzilate)	arthropod pests of
Homalodisca coagulata in, on grapevine	foliacea, Anisoscelis	in Finland 1903, 4476
6452 Keiferia lycopersicella in, on tomato	Folidol-M (see Parathion-methyl) Folimat (see Omethoate)	in Indiana 2850 in New South Wales 2161
1029	follicularis, Filippia	in Quebec 4177
leaf hoppers in, on peach 2448	Folsomia candida	in Tasmania 5416
Liriomyza sativae in natural enemies of 473	carbofuran in, effects of 212 insecticide bioassay using 212, 213	in West Germany 2162 pest control on
on tomato 473	Folsomia fimetaria, preyed on by,	aldicarb for 5682
Mocis spp. in, on grasses 4532	Pergamasus longicornis 3422	ethiofencarb for 6530
Oncometopia nigricans in, on grapevine	Fomes, in, Pinus nigra, in Hungary 4109	terbufos for 5681
Pachnaeus opalus in, natural enemies of	Fomes lividus in	pests of, in USSR 351 forbesi, Aphis
6484	Eucalyptus regnans wood, effects on	Forcipata loca
Pantomorus cervinus in 5081	Nasutitermes exitiosus of 2842	in USA 1945
Pentamerismus erythreus in, on Juniperus 6613	Eucalyptus wood, effects on termite resistance of 262	on Festuca arundinacea, in Missouri 1945
Pheidole dentata in, natural enemies of	wood, effects on Coptotermes lacteus of	Forcipomyia
4499	5490	breeding places of 3052
Plutella xylostella in natural enemies of 1000	Fomoria in USA 2168	in Neotropical region 6011 in North America 498
on cabbage 2002	taxonomy of 2168	in leaf axils, in Brazil 3052
Pseudaonidia trilobitiformis in, on mango	Fomoria hypericella	on avocado, in South Africa 4557
5088	descriptions of 2168 in USA 2168	on cacao, pollination by 498 rearing of, techniques for 1853
Pseudaulacaspis pentagona in, natural enemies of 4555	on Hypericum prolificum 2168	Forcipomyia argenteola
Rhizoecus spp. in 3057	taxonomy of, transferred from Nepticula	in Colombia 4080
R. hibisci in, on Cryptanthus 1060	2168 Formeria atalianella	on cacao, in Colombia 4080
Sambucus spp. in, insect pollinators of 4545	Fomoria pteliacella descriptions of 2168	Forcipomyia avocadonis sp. nov., description of 4557
Scaphytopius spp. in 1962	in USA 2168	in South Africa 4557

Forcipomyia blantoni	Forest trees contd.	Forficula auricularia contd.
in Colombia 4080 on cacao, pollination by 4080	Lymantria dispar on contd. forecasting infestations of 577	preying on contd. Hoplocampa minuta, in West Germany
reproductive potential of 1854	hazard ratings for 568	1432
Forcipomyia caribbeana	Malacosoma disstria on, in North	Synanthedon tipuliformis, in New
breeding places of 3052 in Brazil 3052	America 563 Pealius quercus on, in Netherlands 3829	Zealand 1444 Yponomeuta malinellus, in West
in leaf axils, in Brazil 3052	pest control on	Germany 1432
Forcipomyia cinctipes	in USSR 5196 pesticides for 2629, 2630, 2631	Forficula decipiens, in Malta 5413 Forficulina, movement detectors for 176
in Colombia 4080 on cacao, in Colombia 4080	pest management on 5780, 5782, 5784,	Formaldehyde
Forcipomyia fuliginosa	5785, 5786, 5788, 5789	diet component for
in Colombia 4080 on cacao, in Colombia 4080	Psylloidea on, in Turkey 1310 Scolytidae on, in North America 2590	Ceratitis capitata 806 Spodoptera littoralis 5717
Forcipomyia genualis	Symphyta on, in Italy 2080	for disinfecting insect eggs 4317 surface-sterilant for, Lymantria dispar
in Colombia 4080 on cacao, in Colombia 4080	Tenthredinidae on in Austria 4627	eggs 5795
reproductive potential of 1854 Forcipomyia poulaineae, reproductive	in Switzerland 4627	Formalin (see Formaldehyde) Formamide, N-(4-chloro-2-methylphenyl)-, in
potential of 1854	in West Germany 4627 Forest understoreys, length-weight relations	cotton, residues of 1543
Forcipomyia spatulifera, reproductive	of insects in, in tropical and temperate regions 5313	Formamide, 1-cyano-N,N-dimethyl-, in Tetranychus urticae, oxamyl metabolite
potential of 1854 Forcipomyia stylifera	Forestry, phytosanitary regulations in 1066	4150
in Colombia 4080 on cacao, in Colombia 4080	Forests Araneae in	Formic acid, in Oecophylla longinoda venom
Forda hirsuta	effects of acephate on 2073	Formica
in USSR 3376, 3460	in Finland 800 beneficial insects in, traps for 379	Dufour's gland in, secretion of 3744 enzyme gene variability in 4967, 4968
on grain crops, in Kazakhstan 3376 on Pistacia vera	birds in, effects of insecticides on 1582	food exchange in, studying of 1337
arthropods associated with 3460	Carabidae in, in Quebec 4836	in Spain 3836
in Turkmenia 3460 parasites of, in Kazakhstan 3376	Chrysopa perla in, in Bulgaria 4987 C. ventralis in, in Bulgaria 6306	in coniferous forests, in Lithuania 5393 sericin in, lectin receptor in 6335
preyed on by, Alophia combustella, in	DDT in, non-target effects of 3102	tending, Aphidoidea, in Manitoba 4971
Turkmenia 3460 Forda marginata	Formica spp. in, effects of winter felling on 129	Formica aquilonia distribution of 5461
in India 286	insect growth regulators in, non-target	enzyme gene variability in 4967, 4968
in USSR 3376 on grain crops, in Kazakhstan 3376	effects of 2077 insecticide deposit patterns in, effects of	foraging in, effects of winter felling on 129
on wheat, in India 286	weather on 629	in Finland 129, 2807, 4967
parasites of, in Kazakhstan 3376 Forda trivialis (see F. marginata)	Lepidoptera in, population size, variability, and aggregation in 6604	in Italy 5462 in Sweden 3725
Forest litter, Oribatei in, in Philippines	Noctuidae in, in Siberia 5417	in UK 4967, 4968
6004 Forest management, invertebrates as affected	pest control in, biological 5930 pest management in 3089	labial gland disease in 2807 Formica cunicularia
by 5758	review 5444	in USSR 5393
Forest pests 2155 control of	use of helicopters in 6618 Phytoseiidae in, in Moldavia 3848	in coniferous forests, in Lithuania 5393 Formica fusca, in Norway 4427
behaviour-modifying chemicals for	Tachinidae in	Formica gagates
1736 biological 1865, 5248	in Czechoslovakia 5470 in Poland 4991	in USSR 5393 in coniferous forests, in Lithuania 5393
book 3696	Forests, coniferous	Formica integra
insecticides for 3175 non-target effects of 678, 2077, 3179	Carabidae in, in Poland 3605 Formicidae in, in Lithuania 5393	preyed on by, Cremastocheilus castaneae 824
dispersal of 1275	Orgyia pseudotsugata in, effects on	sharing food with Cremastocheilus
ecophysiology of, book 5798 in Chile 5176	streamflow of 5217 Forests, deciduous	castaneae 824 Formica japonica
in Italy 6592	Acrididae in, in USSR 2799	in Japan 4429
in Newfoundland 6624 in USA 2064	Carabidae in, in Poland 3605 insect-plant associations in 1097	polygyny in 4429 Formica lugubris
parasite reservoirs for 509	social Hymenoptera in, in France 123	biology of 119
parasitised by, Ichneumonidae, in Poland 2075	Forests, eucalypt, Coleoptera in, in Victoria 5763	cocoons of, responses of F. rufa to 2325, 2326
preyed on by	Forests, mixed	distribution of 5461
birds 2562 in New Hampshire 5753	Carabidae in, in Ontario 136 Formica lugubris in, in England 119	in Finland 2807 in Irish Republic 5146
in North America 2558	Forests, mixed hardwood, leaf-cutting ants	in Italy 5462
worldwide status of 1066 Forest soils	in, in Paraguay 2804 Forests, oak	in Sweden 3725 in UK 119
DDT in, residues of 3078, 5769	Bacillus thuringiensis in, not affecting	in USSR 5393
Elateridae in, effects of clearing on 3083 fenitrothion in, degradation of 3226	beneficial insects 3098 Carabidae in, in Michigan 5198	in coniferous forests, in Lithuania 5393 in coniferous woodland, nest sites of
Isoptera in, effects on rainwater	Lepidoptera in, in New Jersey 571	5146
infiltration of 5003 lindane in, residues of 3078, 5769	Forests, oak-hornbeam, Coleoptera in, in Czechoslovakia 5754	in mixed forests, in England 119 labial gland disease in 2807
Forest trees arthropod pests of	Forests, pine Coleoptera in	tending, Symydobius oblongus, in England
in Canada 2792	in New Zealand 4875	Formica nigricans
in Indiana 2850 Atta spp. on, damage caused by 5179	in Victoria 5763	distribution of 5461 in Italy 5462
Chrysobothris affinis on, in Tadzhikistan	Formica polyctena in, importance of 5747	in Sweden 3725
1249 Coleoptera on, dispersal of 3574	Ichneumonidae in, effects of shrub vegetation on 2075	Formica pallidefulva in USA 1331
Curculionidae on	Forests, rain, Drosophila spp. in, in	Laboulbenia formicarum in, in North
in Kansas 1835 in Sweden 5768, 5769	Australia 3775	Carolina 1331
Dendroctonus spp. on, in Mexico 1649	Forests, spruce, Berytinus minor in, in North America 2574	Formica perpilosa in Mexico 2805
insect pests of in New Zealand 4303	Forests, tropical, ecosystems in, book 1585 Forficula auricularia	in USA 2805
in South Africa 695	in New Zealand 1444	tending, <i>Publilia</i> spp. 2805 workers of, division of labour in 2805
Lymantria dispar on assessing infestations of 577	in West Germany 1432 peritrophic membrane in 1194	Formica polyctena aggression in 6296
damage caused by 1103	preying on	biology of 5747
predicting of 553	black aphide in West Germany 1432	cocoon recognition in 2328

		703
Formica polyctena contd.	Formicidae contd.	France contd.
distribution of 5461	on Citrus, in South Africa 4007	Bruchus lentis in, on lentil 5667
enzyme gene variability in 4968	pheromones in, review 245	B. signaticornis in, on lentil 5667
foraging in 4433	preying on	Byctiscus betulae in, on grapevine 2941
effects of winter felling on 129	Achatina fulica 4983	
in Finland 129		Carabidae in, natural enemies of 6305
	Cerceris watlingensis, in Bahamas	Castanea spp. in, insect pests of 3461
in Italy 5462	4930	Chilo suppressalis in, on rice 1258
in Netherlands 4433, 5500, 6296	Eldana saccharina, in South Africa	Cnephasia pumicana in, on grain crops
in Sweden 3725, 5747	1378	4502
in pine forests, importance of 5747	Hyles euphorbiae, in Canada 6339	Contarinia lentis in, on lentil 5667
predation by 6296	molluses 4449	Curculio elephas in, in sweet chestnuts
preying on	Ophiomyia phaseoli, in Thailand 3522	3144
Lymantria monacha, in Sweden 5747	rice hoppers, in Thailand 911	Cydia pomonella in
Panolis flammea, in Sweden 5747	sex ratio in 3846	
		on apple 6057
Tyria jacobaeae, in Netherlands 5500	social parasitism in 240	on pear 968
Formica pratensis	sternal glands in 4431	C. splendana in, in sweet chestnuts 3144
distribution of 5461	tending, Aphidoidea, in Manitoba 4971	Dacus oleae in, on olive 2457
enzyme gene variability in 4968	tergal glands in 4431	Delia antiqua in, on onion 214
in Italy 5462	territoriality in 5451	Dendroctonus micans in 3578
in Sweden 3725	urbanization as affecting 127, 133	Eotetranychus carpini in, on grapevine
in USSR 2802	volatile chemical signals in, complexity of	2940
territorial organisation in 2802	1732	Epichoristodes acerbella in, on carnation
Formica rufa 3825		
	Formicinae, in coniferous forests, in	501
brood care in, learning of 2326	Lithuania 5393	Epidiaspis leperii in, on plum 5608, 5612
cocoon recognition in 2325	formosa, Chrysonotomyia	Eupoecilia ambiguella in, on grapevine
colonies of, protecting of 1336	formosa, Chrysopa	3988
colony integrity in 2256	formosa, Encarsia	Euzophera cinerosella in, on Artemisia
column integrity in 2256	formosana, Empoasca	1905
distribution of 5461	formosana, Enarmonia	forage legumes in, insect pests of 3002
enzyme gene variability in 4968	formosanus, Coptotermes	Gonipterus scutellatus in, on Eucalyptus
in Italy 5462	Formothion (S-[2-(formylmethylamino)-2-	2081, 5790
in Sweden 3725	oxoethyl] O,O-dimethyl	grain crops in, insect pests of 6355
in USSR 2256		
	phosphorodithioate)	Hyalopterus pruni in, on peach 5076
in West Germany 1336, 1432	against	Hyphantria cunea in
in mixed forests, in West Germany 1432	Amrasca biguttula, on cotton 5719	natural enemies of 3075, 3854
preying on	Anthonomus rubi, on strawberry 6448	on Acer 3075
Thaumetopoea processionea, and	Heliothis armigera, on maize 314	insect pests in, monitoring of 4702
biological control using, in West	Ostrinia nubilalis, on maize 314	Ips sexdentatus in, Diptera in tunnels of
Germany 1588	Quadraspidiotus perniciosus, on	5186
Tortrix viridana, in West Germany	mulberry 378	I. typographus in, Diptera in tunnels of
1336	Scirtothrips dorsalis, on Capsicum	5186
group of	6554	Lampra festiva in, on Thuja 2575
'cold-crippling' of 2800	Sundapteryx biguttula, on castor 4054	Leptinotarsa decemlineata in, on potato
enzyme gene variability in 4968	in Coccinella repanda, toxicity of 6725	3024
taxonomy of 3725	in Coccinella septempunctata, toxicity of	Liriomyza trifolii in
urbanization as affecting 133	1712	on Chrysanthemum 2049
Formica sanguinea	in cotton, effects of rain on 5719	on Gerbera 2049
food-searching behaviour in 3296	in maize, residues of 314	on ornamental plants 5136
in Norway 4427	fortipes, Acanthogryllus	livestock housing in, pest control in 5230
Formica subsericea	fossor, Gryllotalpa (see G. africana)	Lochmaea suturalis in, on Calluna 279
in USA 4633	Fosthietan (diethyl 1,3-dithietan-2-	Lymantria dispar in, natural enemies of
tending, Kermes kingii, in Michigan	ylidenephosphoramidate)	4642
4633	against	Macrosiphum euphorbiae in
Formica truncorum	Agrotis ipsilon, on maize 4900	natural enemies of 5693
enzyme gene variability in 4968	pests of tobacco 4609	on eggplant 2032
in Finland 2807	in tobacco plantations, effects on	on potato 2026
labial gland disease in 2807	predatory insects of 4609, 4934	maize in, arthropod pests of 6368
formicarum, Andaspis	foveicollis, Aulacophora (Raphidopalpa)	Mamestra brassicae in
Formicidae	foveicollis, Raphidopalpa (see Aulacophora	on cabbage 1669
afforestation as affecting 132	foveicollis)	on cauliflower 2998
caste and ecology of, book 2293	foveolatus, Pediobius	Matsucoccus feytaudi in, on Pinus 1598
caste differentiation in 5451	Fowl (Gallus domesticus)	Merodon equestris in, natural enemies of 5138
control of 4007	malathion in	
insecticides for 669, 826, 3837	effects on yolk sac of 4161	Myzus persicae in
division of labour in 5451	toxicity of, effects of pretreatment with	natural enemies of 5693
food exchange in, studying of 1337	DDT on 1709	on eggplant 2032
fungi in, in Ghana 5363	fracticornis, Acromyrmex landolti	on potato 2026
in Arizona 794	fragaefolii, Chaetosiphon (Pentatrichopus)	M. varians in, on peach 5076
in Denmark 2801	fragaefolii, Pentatrichopus (see	Neophilaenus spp. in, spiroplasms in
in Fennoscandia 2801	Chaetosiphon fragaefolii)	6668
in Norway 4427	fragariae, Sitobion	Operophtera brumata in, on fruit trees
in Spain 3836	fragariae, Tarsonemus (see T. pallidus)	5065
	fragilis, Pseudococcus (see P. calceolariae)	Oscinella frit in
in Utah 794	France	on Lolium 3801
in anthropogenic environments, in France		on maize 218, 3801
. 123	Acrolepiopsis assectella in, on leek 470,	
in cacao plantations	3030, 3031, 5698, 6548	Ostrinia nubilalis in, on maize 880, 2364
in Costa Rica 5133	Adelgidae in, on conifers 3611	Pammene fasciana in, in sweet chestnuts
in Ghana 5359	Adelphocoris spp. in, natural enemies of	3144
in dwellings, in Bermuda 3837	5578	Panonychus ulmi in, on grapevine 2940
in oak forests, not affected by Bacillus	agricultural entomology in 5496	pea in, insect pests of 3002, 5668
thuringiensis 3098	Agriotes spp. in, on potato 3811	Phyllotreta spp. in, on rape 3813
in pastures, interactions with Solenopsis	Aphanostigma piri in, on pear 2965	Phytoseiidae in 2051
	Aphididae in, on sugar-beet 3530	Prays citri in, on Citrus 1779
invicta of 2324		P. oleae in
in rangeland, importance of 3977	Aphidoidea in	
in soil	on apple 5601	natural enemies of 1657
biology of 2780	on pear 5601	on olive 1779, 2457
extracting of 4873	Apis mellifera in, spiroplasms in 6668	Psila rosae in, on carrot 214, 217
role in erosion of 2790	Aulacorthum solani in	Psylla pyri in
in sugar-cane plantations, damaging	natural enemies of 5693	natural enemies of 5607
irrigation tubing 2355	on potato 2026	on pear 5607
in tropical forests, book 1585	Aylax papaveris in, on Papaver	Psylliodes chrysocephalus in, on rape
industrial pollution as affecting 126, 128	somniferum 5713	3813
land use as affecting 124	Brachycera in, in grassland 3432	Pyemotes zwoelferi in, on man 6642

France conta.	Traxinus pennsyrvanica	Figure trees conta.
Pyrochroa coccinea in, on Ulmus 1084	Podosesia syringae on	insect pests of, in Assam 4142
Rhagium inquisitor in, on Pinus 3600	in North Dakota 3085	Lepidoptera on, in USSR 2946
Saissetia oleae in, on olive 2457, 3506	in USA 565	Lymantria dispar on, development of
Scolytidae in, on conifers 3612	Prionoxystus robiniae on	1587
Siteroptes athiasae in 2989	in North Dakota 3085	Malacosoma neustria on, in Japan 5596
	in South Dakota 3085	Oncideres spp. on, in Brazil 2933
Sitona humeralis in, on lucerne 3446,		
3981	freemani, Carpophilus	pest control on 2946
S. puncticollis in, on lucerne 3981	freemani, Nepytia	biological 5950
S. tenuis in 1763	frenata, Micraspis (Verania)	pest management on, book 2932
social Hymenoptera in, in anthropogenic	frenata, Verania (see Micraspis frenata)	pests of
environments 123	frenchi, Lepidiota	in Denmark 5282
	frenchii, Lespesia	in Kerala 1902
Symphyta in 1831	frigidum, Calosoma	Psylloidea on, in Turkey 1310
Thaumatomyia notata in, in dwellings	frischella, Coleophora	Quadraspidiotus perniciosus on
828		
Vicia faba in, insect pests of 3002	frischii, Dermestes	damage caused by 2955
Yponomeuta malinellus in	frit, Oscinella	in Bulgaria 375
on apple 5065	Frog, preying on, Maruca testulalis, in	Scaphytopius spp. on, in Florida 1962
	Nigeria 6514	Fruit waste, Drosophila spp. in, in England
on pear 5065	Frontalin (see 6,8-Dioxabicyclo[3.2.1]octane,	597, 598
Y. padellus in, on plum 5065	1,5-dimethyl-)	frustrana, Rhyacionia
franciscae, Gortyna xanthenes	frontalis, Dendroctonus	frustranae, Campoplex
Frankliniella	frontalis, Systena	fruticavus, Incisitermes
control of	frontalis, Xylocopa	fruticola, Mychiothrips
insecticide-fungicide mixtures for 4613	Frontalure (see Bicyclo[3.1.1]hept-2-ene,	Fuchsia, Colaspis louisianae on, in Louisian
insecticides for 2511	2,6,6-trimethyl-, with 1,5-dimethyl-6,8-	4310
on Chrysanthemum, in Florida 4613	dioxabicyclo[3.2.1]octane)	fucosa, Agrotis
on cotton	frontella, Agromyza	fugax, Diplorhoptrum (see Solenopsis fugax
in USA 2511	Fructofuranosidase, β-	fugax, Solenopsis (Diplorhoptrum)
resistance to 3554	in Bombyx mori cocoon 4756	fugitivus, Hyposoter
taxonomy of 4190	in Cheyletus eruditus gut 4231	fulgens, Agrilus arcuatus
Frankliniella fusca	in Chilo auricilius gut 5319	Fulgoroidea
control of	in Spodoptera mauritia gut 5318	in New Zealand 4210
economics of 4039	D-Fructose	in Vietnam 803
insecticides for 4039, 4071	diet component for, Dermestidae 178	fulgurita, Clostera (Pygaera)
in Canada 1625	in Acanthoscelides obtectus adult diet,	fulgurita, Pygaera (see Clostera fulgurita)
in USA 1625, 4039, 4071	effects on life-span and fecundity of	fuliginosa, Forcipomyia
on cotton, damage caused by 4071	1243	fuliginosa, Phragmatobia
		fullo, Erthesina
on groundnut, damage caused by 4039	in Oxyrhachis tarandus feces 3748	
tomato spotted wilt virus in, transmission	Rhagoletis completa oviposition responses	Fulure (see 11-Tetradecenal, (E)-, with (Z)-
of 1625	to 3463	11-tetradecenal)
virus-like particles in, in Ontario 1625	1,6-bis(dihydrogen phosphate), in Locusta	fulva, Paratrechina
Frankliniella minuta, group of, taxonomy of	migratoria flight muscles, during flight	fulva, Trichogrammatoidea
4190	4228	fulvicorne, Nodostoma (see Basilepta
Frankliniella occidentalis	frugalis, Mocis	fulvicornis)
control of	frugiperda, Laphygma (see Spodoptera	fulvicornis, Basilepta (Nodostoma)
fumigants for 5826	frugiperda)	fulviventris, Gryon
insecticides for 1483, 4071	frugiperda, Spodoptera (Laphygma)	fulvus, Smicronyx
in USA 1483, 4071, 5826	Fruit borer, on okra, in Tamil Nadu 414	Fumagillin, in Nosema disstriae, toxicity of
on cotton, damage caused by 4071	Fruit crops	617
on strawberry, in California 5826	arthropod pests of	Fumaric acid (see 2-Butenedioic acid, (E)-)
on tomato, damage caused by 1483	in Austria 1755, 1756	Fumi-Cel (see Phosphine)
Frankliniella schultzei	in Canada 2792	fumiferana, Choristoneura
in India 5468	in Finland 1903	Fumigants, synonyms of 2128
in Zimbabwe 3049	in New South Wales 2161	Fumigation, EPPO Standing Committee on
on tobacco, in Zimbabwe 3049	in Quebec 359, 4177	6696
preyed on by, Anthocoridae, in India	in Tasmania 5416	Fundal (see Chlordimeform)
5468	in UK 2654	Fundazol (see Benomyl)
Frankliniella tenuicornis	in West Germany 2162	funebrana, Cydia (Grapholita)
in China 315	in Yugoslavia 1463	funebrana, Grapholita (see Cydia funebrana
in Libya 2368	Geometridae on, in Crimea 2957	funebris, Drosophila
on maize	insect pests of, in UK 4721	Funemone (see 8-Dodecen-1-ol, acetate, (Z)
		runemone (see 6-100decen-1-01, acctate, (2)
in China 315	pest control on	Thurst
in Libya 2368	biological 6001	Fungi
Frankliniella tritici	book 2621, 3696	Agriotes spp. on, in Scotland 3162
control of, insecticides for 4071	botanical insecticides for 3704	in
in USA 1511, 4071	in USSR 6693	Acyrthosiphon kondoi, in Tasmania
on cotton, damage caused by 4071	insecticides for 5255	1956
on soyabean	integrated 3825, 5943	Bombyx mori 5495
assessing infestations of 1511	pesticides for 1688, 2629, 2630, 2631	Choristoneura fumiferana, in Ontario
distribution pattern of 1511	pyrethroids for 3704	6633
predation by	stink bugs on, in Japan 1433	cotton, associated with Psallus seriatus
effects of temperature on 3450	Tetranychidae on, in Rajasthan 1361	and excessive ethene production
not affected by prey age 3450	Tetranychus urticae on, in UK 268	2548
preying on, Hypera postica 3450	Fruit, dried	Dasineura tetensi, in USSR 3456
seasonal abundance of 1511	fumigants in, residues of 585	Formicidae, in Ghana 5363
Frankliniella williamsi	insecticides in, residues of 585	insects 2113
in Colombia 1025	Plodia interpunctella in, in USSR 3128	diagnostic manual 4139
on cassava, in Colombia 1025	Fruit (stored), Plodia interpunctella in, in	Lepidiota stigma, in Indonesia 616
fraterculus, Acanthoscelides	USSR 3128	Leucopholis rorida, in Indonesia 616
fraterna, Euproctis	Fruit trees	Lymantria dispar 4652
		Neodiprion excitans, in Belize 1071
fraternus, Horismenus	arthropod pests of	
Frauenfeldiella jelinekii (see Aleurotuba	in Caucasus 1973	Odontotermes obesus, in Delhi 5485
jelinekii)	in Netherlands 5772	pests of glasshouse crops, in UK 2654
fraxini, Albuna	in West Malaysia 4723	rice hoppers 340
fraxini, Leperisinus	Byctiscus betulae on, in France 2941	Scathophaga stercoraria, in Scotland
Fraxinus	Ceratitis capitata on, in Turkey 1311	3162
Cerna omissa on, in Turkey 1310	Chrysobothris affinis on, in Tadzhikistan	Schistocerca gregaria, effects on gut
	1249	carbohydrase activity of 43
Leperisinus varius on, in West Germany		
2053	Coleoptera on, in USSR 2791, 5064	soil, effects of insecticides on 2141
Fraxinus excelsior	Curculionidae on	wheat grain, effects on Sitophilus oryza
Lignyodes enucleator on, in Poland 3776	in Kansas 1835	of 2785
Saperda populnea on, in England 5208	in Yugoslavia 4863	Pegomya spp. on, in Finland 5647

	Y7	
ungi contd.	Fungus contd.	Furan, 3-(4-methyl-3-pentenyl)-, in
Phanaeus halffterorum on, in Mexico	Entomophthora contd.	Xiphomyrmex mandibular gland
1766	E. sphaerosperma 606, 5218, 5672, 5843,	secretion 4761
Trochometridium tribulatum feeding on	6136	2(3H)-Furanone, 5-(1-decenyl)dihydro-
135	E. thripidum 1634	(R,Z)-, Popillia japonica sex pheromone
ngi, Atheta	E. virulenta 2652	
ungi Imperfecti, insecticidal activity of	Fomes 4109	665
		(S,Z)-, inhibitor of Popillia japonica
extracts of 5234	F. lividus 262, 2842, 5490	response to sex pheromone 665
ungicides	Fusarium 1123, 1637, 2652, 3650, 3924	2(3H)-Furanone, dihydro-5-pentyl-, in
books on 3191	F. oxysporum 1322	almond hulls 6453
economic consequences of reduced use of	F. solani 4610	furcatus, Steneotarsonemus
5954	F. stilboides 4720	furcifera, Sogatella
in Apis mellifera, toxicity of 1710		
	Geotrichum candidum 5850	Furcraea, Dysmicoccus neobrevipes on, in
in Encarsia formosa, toxicity of 676	Gibberella fujikuroi 620	Florida 1035
in Entomophthora ignobilis, effects of	Gloeophyllum trabeum 262, 2842, 5490	furfurana, Bactra
2165	Gremmeniella abietina 6602	furfuranum, Olethreutes
in Trichogramma embryophagum, toxicity	Gymnoascus 1637	furnacalis, Ostrinia
of 1706	Hirsutella nodulosa 5053	
		4H-Furo[3,2-c]pyran-2(6H)-one, 4-hydroxy-,
use of	H. thompsonii 1629	Tribolium confusum responses to 6179
in Australia 623	Hormiscioideus filamentosus 3867	furvus, Pediobius
in Japan 6704	Hypoxylon mammatum 3084	Fusarium
ungus 43, 340, 732, 790, 1071, 1129,	Irpex flavus 5226	in
1450, 1659, 1766, 1956, 2113, 2141,	Laboulbenia formicarum 1331	
		Galleria mellonella, pathogenicity of
2548, 2654, 2785, 3162, 3456, 4139,	Laetiporus sulphureus 1105	1123
4652, 4848, 4849, 5012, 5363, 5485,	Lenzites platyphylla 5226	insects, pathogenicity of 1637
5495, 5647, 6633	Leptosphaeria coniothyrium 940	Leucoma salicis, in USSR 1123
Agaricus bisporus 5091, 6335	Massospora cicadina 4635	maize grain, in Nigeria 3650
A. bitorquis 2991	Merulius tremellosus 1105	Sogatella furcifera, in Madhya Pradesh
Alternaria alternata 4120, 4668		3924
Ambrosiella hartigii 6455	Metarhizium 1104	toxins of 2652
Armillaria 1091	M. anisopliae 289, 616, 626, 1919, 2981,	
	3158, 3890, 6432, 6682	Fusarium moniliforme (see Gibberella
Armillariella mellea 2065	Mucor racemosus 6097	fujikuroi)
Aschersonia 626, 2118	Mycosphaerella ligulicola 4613	Fusarium oxysporum, in, Gelechia
A. placenta 628		hippophaella, in Buryatia 1322
Ascosphaera apis 3683	Nectria coccinea 6602	Fusarium solani, Xylosandrus compactus on
Aspergillus 1637, 3650	Nematospora coryli 4037	oviposition by 4610
A. amstelodami 3116	Nomuraea rileyi 460, 1031, 1620, 1626,	Fusarium stilboides, in, coffee, insects
A. candidus 4120, 4668	1921, 3720, 3890, 4060, 5121, 5672,	associated with 4720
	6522, 6672, 6675, 6680	
A. flavus 2522, 2533, 4655	Oidium 5582	fusca, Busseola
A. fumigatus 3675		fusca, Formica
A. glaucus 4668	Oospora sajanica 2106	fusca, Frankliniella
A. niger 3324	Paecilomyces farinosus 1123, 3158	fusca, Holcocephala
A. parasiticus 1798	P. fumosoroseus 626, 1322, 1633, 6672,	fuscatus, Polistes
A. repens 1322	6680, 6682	fuscedinella, Coleophora (see C. serratella)
A. versicolor 1322, 3116	P. tenuipes 3940	fuscedinella, Haploptilia (see Coleophora
Beauveria 1104, 1444, 1637, 1651, 3792,	Penicillium 3650, 6179	serratella)
5973	P. chrysogenum 3116	fuscescens, Cletus
B. bassiana 59, 587, 626, 911, 1088,	Phellinus weirii 2065	fuscicollis, Ageniaspis
1322, 1360, 1479, 1660, 1919, 2111,	Phoma medicaginis 5050	fuscicornis, Pemphigus
2414, 2625, 2652, 2782, 2903, 2981,	Phytophthora 3021, 3022, 3532	fuscicornis, Terellia
3024, 3158, 3514, 3720, 4515, 5107,	P. cinnamomi 4643	fuscipennis, Aphelinus (see Aphytis
5672, 5861, 6539	P. palmivora 1054	diaspidis)
B. brongniartii 2614, 2904, 3164, 4135	Pleurotus flabellatus 5226	fuscipes, Calathus
B. tenella 626, 2117	Podosphaera leucotricha 3345, 5603	fuscipes, Paederus
Botrytis 5582	Polyporus compactus 1105	fuscipes, Rhynocoris
B. cinerea 940	Poria cocos 1105	fuscipes, Scatopse
Candida guilliermondi 5850	P. medullaris 1091	fusciscapus, Cheiloneurus
C. krusei 5850	P. placenta 262, 2842, 5490	fuscispinus, Carpocoris
Cephalosporium 1637	Puccinia caricis 3841	fuscus, Tenebroides
C. charticola 1322	P. helianthi 4057	Fusobacterium, in, Reticulitermes flavipes, in
Ceratocystis 4109	Pycnoporus sanguineus 5226	hind-gut 4464
C. ulmi 533, 566, 3087, 3568, 3824,	Pythium 2937	fustifer, Glycyphagus (see Lepidoglyphus
4616, 4924, 5209, 6600, 6610	P. aphanidermatum 2019	fustifer)
Chaetomium globosum 262, 2842	P. myriotylum 2019	fustifer, Lepidoglyphus (Glycyphagus)
Cladosporium cladosporioides 4668	Rhizobium meliloti 5576	futilis, Euexorista
Cordyceps 1384, 1444	R. trifolii 5576	GA (gibberellic acid and gibberellins)
C. aphodii 1948	Rhizoctonia 2937, 5234	in Agropyron smithii, effects on Aulocara
	Rhizopus 3650	elliotti of 4959
C. militaris 1633		in Albizia lucida, effects on lac production
C. oxycephala 78	R. oryzae 1540	
Coryneum cardinale 1077	R. stolonifer 4342	by Kerria lacca of 2345
Dacryopinax spathularia 5226	Sclerotium oryzae 6393	in cotton, effects on Aphis gossypii of
Debaryomyces 3116	Septobasidium 6583	4074
Didymella applanata 940	Sphaerostilba aurantiicola 2046	in Moghania macrophylla, effects on lac
Entomophthora 202, 209, 886, 3510,	Sporotrichum prunosum 1322	production by Kerria lacca of 2345
5524, 5693, 5880, 6437, 6457, 6469,	Stereum frustulatum 1105	gagates, Formica
6691	Stigmatomyces crassicollis 4138	galactinus, Xylocoris
E. aphidis 1658, 2042, 5218	S. hydrelliae 4138	Galactitol, Yponomeuta feeding responses to
E. canadensis 5218		4775
	S. scaptomyzae 4138	Galápagos Islands
E. caroliniana 5237	Syncephalastrum racemosum 2908	
E. crustosa 2070	Torulopsis 3116	cassava in, arthropod pests of 4592
E. culicis 1126	Trichoderma 4342	Heteroptera in 6127
E. egressa 612	T. viride 1322	galathea, Metaphidippus
E. floridana 5243	Trichosporium symbioticum 2585	Galecron (see Chlordimeform)
E. gammae 5672	Trichothecium roseum 2153	Galeruca rufa
E. gigantea 5237	Triplosporium fresenii 5621	in Italy 847
E. grylli 1123	Tritirachium dependens 3720	on Convolvulus arvensis, in Italy 847
E. ignobilis 2042, 2165	Venturia inaequalis 5603	parasitised by, Asecodes galerucae, in
	Verticillium lecanii 342, 1630, 3058,	Italy 847
E. megasperma 2070		
E. muscae 6136	3158, 3941, 5236, 5662, 5859	galerucae, Asecodes
E. obscura 1635, 4136	Fungus collections, Tyrophagus	Galerucella nymphaeae
E. parvispora 1634	putrescentiae in, in Italy 5012	in USSR 1343
E. phytonomi 352, 4538	fur, Ptinus	on Nymphaea, in USSR 1343

```
Galerucella nymphaeae contd.
                                                                                                   Garden plants
                                                                                                                                                                                                      Gelechia hippophaella contd.
                                                                                                        insect pests of, in Yugoslavia 2078 pests of, in Kerala 1902
                                                                                                                                                                                                           on Hippophae rhamnoides, in Buryatia 1322
    parasitised by, Asecodes mento, in USSR
           1343
                                                                                                   Gardenia jasminoides
Aleyrodidae on, oviposition by 2976
                                                                                                                                                                                                       gelechiae, Bracon
Galerucinae, on Rutaceae 5618
galii, Trioza
                                                                                                                                                                                                       Gelechiidae
                                                                                                                                                                                                           attractants for 3236
on Betula, in West Germany 1575, 1576
Galinsoga ciliata, insects associated with, in
                                                                                                        Diptilomiopus bengalensis on, in West
       Americas 4487
                                                                                                               Bengal 4727
Galinsoga parviflora, insects associated with,
                                                                                                                                                                                                            on Ceanothus sanguineus, damage caused
      in Americas 4487
                                                                                                                                                                                                                  by 4090
                                                                                                        ant control in, insecticides for 826
Galium verum, Heliococcus slavonicus on, in
Poland 2271
                                                                                                        Polistes spp. in, in Texas 4448 social Hymenoptera in, in France
                                                                                                                                                                                                       on Quercus, in Missouri 6224
rearing of, diets for 1850
Gelechioidea, food preferences in, evolution
of 5434
Galleria mellonella
                                                                                                   Gardona (see Tetrachlorvinphos)
     Bacillus thuringiensis in
                                                                                                    Gargara varicolor
                                                                                                                                                                                                       Gelis areator
         defence mechanisms against 5848
                                                                                                        in India 2449
                                                                                                                                                                                                            in Poland 2952, 3602
                                                                                                        on Litchi chinensis, in Uttar Pradesh
     induction of phagocytosis of Chilo iridescent virus in 2619
                                                                     3165
                                                                                                                                                                                                            parasitising, Coleophora spp., in Poland
                                                                                                              2449
                                                                                                                                                                                                                  2952
                                                                                                   Garlic (Allium sativum)
         hemocyte destruction by 3163
                                                                                                                                                                                                       Gelis tenellus
                                                                                                                                                                                                           competing with, Eurytoma verticillata 1563
     chlordimeform in, effects on foregut
                                                                                                        Acrolepiopsis assectella on, in France
                                                                                                              6548
           neuromuscular system of 1813
    clover phyllody, causal agent in, pathogenicity of 5836 control of, fumigants for 3717 enzymes in 3266, 3268, 6065, 6080 fungi in, pathogenicity of 1637
                                                                                                         insecticidal activity of extracts of
                                                                                                                                                                                                           host discrimination in 4647
humidity as affecting 3293
in USA 3293
                                                                                                         Thrips tabaci on, in India 5468
                                                                                                    Garlic extracts, against, Beauveria bassiana
                                                                                                                                                                                                           oviposition in, stimuli for 4647
parasitising, Apanteles melanoscelus
1563, 4647
                                                                                                          1360
                                                                                                   1360
Garvox (see Bendiocarb)
Gascardia destructor
control of, biological 5949
in Australia 5949
in South Africa 4988
parasitised by, Zaomma xhosa, in South
Africa 4988
Gastrallus pubens
in Israel 2087
in books, damage caused by 2087
Gastrancistrus mineswari
    Fusarium spp. in, pathogenicity of 1 growth regulators in, effects of 2647 gut flora of, effects of antibiotics on 5850
                                                                                                                                                                                                      temperature as affecting 3293
geminata, Solenopsis
geminata, Stelidota
geminatus, Trinervitermes
gemmatalis, Anticarsia
Genetic control
    hemolymph in 4372
effects of injected particles on
coagulation of 4770
effects of low temperatures on
effects of temperature on 1803
Heterorhabditis bacteriophora in
bacterial transpission by 3152
                                                                                                                                                                                                           of arthropods
                                                                         6065
                                                                                                                                                                                                                Dacus tryoni 4798
Delia antiqua 1027, 4699, 6146
Heliothis virescens 4797
Ostrinia nubilalis 6164
                                                                                                    Gastrancistrus muneswari
    bacterial transmission by 3152
effects of 1623
in honeycombs, collecting larvae of 1342
inert particles in, phagocytosis of 4243
iridescent virus in, replication of 4137
                                                                                                        sp. nov., description of 2174 in India 2174
                                                                                                    parasitising, Oligotrophus mangiferae, in
Bihar 2174
Gastrancistrus sugitama
                                                                                                                                                                                                                pests of cotton 488
Rhagoletis cerasi 4797
Teleogryllus commodus 4798
balanced sex-linked lethals for
    juvenile hormones in
hydrolysis of 3268
protein binding of 3268
larval behaviour in 3830
                                                                                                         sp. nov., description of
                                                                                                        illustrations of 5737
in Japan 5737
                                                                                                                                                                                                                chromosome rearrangements for review 3173, 4797, 4798
                                                                                                   in Japan 5/3/
parasitising, Contarinia inouyei, in
Kyushu 5737

Gastrimargus transversus
in India 2796
nymphal development in 2317
seasonal abundance of 2796

Gastroidea viridula (see Gastrophysa
viridula)
                                                                                                                                                                                                       Genetic engineering, in pest management
                                                                                                                                                                                                              4813
     moulting in, neuroendocrine regulation of
                                                                                                                                                                                                       geniculata, Desera
genistae, Arytaina
genistae, Eriophyes
Gentamicin, in Nosema disstriae, not toxic
            754
     Neoaplectana spp. in, rearing of 5752 nuclear polyhedrosis virus in
     heat inactivation of 2611
infectivity of 4679
recombination of 6679
restriction maps of 4682
Paecilomyces farinosus in, not pathogenic
                                                                                                                                                                                                              617
                                                                                                                                                                                                       gentueri, Dasineura
genualis, Forcipomyia
Genyodonta flavomaculata egregia, rearing
of, techniques for 397
Geococcus coffeae
control of, insecticides for 1055
in El Salvador 1055
                                                                                                   Gastropacha quercifolia
biology of 5771
in Finland 5771
in UK 1817
            1123
     parasitised by
         Brachymeria intermedia 2711, 2812
Lixophaga diatraeae 293, 1316, 6315
Pimpla turionellae 832, 2834
                                                                                                        on Sorbus aucuparia, in Finland pale form of, inheritance of 1817
                                                                                                    Gastrophysa atrocyanea
dispersal of 851
food-plant specificity in 849
in Japan 849, 850
on Rumex obtusifolius
                                                                                                                                                                                                            on coffee, assessing infestations of 1055
     plant mycoplasmas in, pathogenicity of
                                                                                                                                                                                                       Geocoris
                                                                                                                                                                                                            in Queensland 1245
     preyed on by, Apis mellifera 3830 prothoracic glands in 6085 pupae of, effects of cooling on protein synthesis and glycerol in 3266 pupation in, relation of JH esterase and
                                                                                                                                                                                                            in cotton fields
                                                                                                                                                                                                                effects of insect-resistant varieties on
                                                                                                             and biological control using, in Japan
                                                                                                                                                                                                                       1047
                                                                                                                                                                                                           in Mississippi 1046
sampling of 1550
in grassland, sampling of 2412
in safflower fields, in Mexico 2298
                                                                                                                   851
                                                                                                             in Japan 850
                                                                                                    Gastrophysa viridula
biology of 5016
control of
            6080
     reserpine in, effects on larval-pupal moult
                                                                                                                                                                                                       in safflower fields, in Mexico 2298 in tobacco plantations, effects of insecticides on 4609 preying on, Corythucha morrilli, in California 5502

Geocoris bullatus
in USA 4600, 5059
in cotton fields, effects of herbicides on 4600
           of 2626
                                                                                                        growth regulators for 2150
insecticides for 5016
in Czechoslovakia 5016
in UK 1906
     Streptococcus faecalis in, preventing
infection by other bacteria 4134
Verson's gland in 3731
Gallerucida bicolor (see Sphenoraia bicolor)
gallica, Locusta migratoria
Gallium, in Delia antiqua diet, inhibiting
pupal development 2226
Gallus domesticus (see Fowl)
gallus. Messor
                                                                                                        in hazardous natural habitats 1906
on Rheum palmatum, damage caused by
5016
                                                                                                    on Rumex obtusifolius, in England 1906
population dynamics of 1906
Gatesclarkeana erotias
in India 2449
on Litchi chinensis, in Uttar Pradesh
                                                                                                                                                                                                       in vineyards, in Pennsylvania 5059
Geocoris lubrus
in Australia 2546
gallus, Messor
Gambia
Gamma-HCH (see Lindane)

Gamma-HCH (see Lindane)

Gamma-HCH (see Lindane)
                                                                                                                                                                                                            in cotton-field borders, in Queensland
                                                             4182
                                                                                                                                                                                                                 2546
                                                                                                                2449
                                                                                                                                                                                                       Geocoris pallens, rearing of, techniques for
                                                                                                    gatti, Wollastoniella
                                                                                                                                                                                                              5130
                                                                                                   gatti, Wollastoniella
gazellus, Onthophagus
gbanjaensis, Sophrorhinus
gedeanus, Poecilips
Gel diffusion tests, for diagnosing American
foulbrood of honeybees 1624
Gelatins, pesticides formulated in
microcapsules of 3215
Gelcarin (see Carrageenan)
Gelechia hippophaella
fungi in, in Buryatia 1322
in USSR 1322
                                                                                                                                                                                                       Geocoris punctipes
biology of 254
in USA 460, 2528, 4603
in soyabean fields, effects of cultural
practices on 460
insecticides in, toxicity of 3547
proceeding as affecting 6321
gamma, Phytometra (see Autographa
gamma, I nytometra (see Autographa
gamma)
Gana (see Trifenofos)
Ganaspis subnuda, taxonomy of,
Trybliographa bochei as synonym of
4736
                                                                                                                                                                                                            prey size as affecting 6321
                                                                                                                                                                                                           Preying on

Heliothis spp., in Mississippi 2528

H. virescens 254, 6321

in Texas 4603
gangis, Creatonotos
ganglbaueri, Haplothrips
Ganja (see Hemp)
```

eocoris uliginosus	Gerbera contd.	German Federal Republic contd.
in USA 4603	Liriomyza trifolii on, in France 2049	Meligethes aeneus in, on rape 3515
preying on, Heliothis virescens, in Texas	Gerbera jamesonii	Metopolophium dirhodum in, natural
4603	Liriomyza trifolii on	enemies of 5524
eodia cydonium, lectins in, receptors in	in France 5136	Myzus persicae in, on sugar-beet 6534
insects for 6335	in Italy 1059	Neodiprion sertifer in 3581
eometridae	Trialeurodes vaporariorum on	Oligomerus ptilinoides in 6661
feeding habits in, population genetic	development of 197	Operophtera brumata in, natural enemies
consequences of 5197	parasitism of 199	of 546
flight activity in 3771	Germacrene B (see 1,5-Cyclodecadiene, 1,5-	
in Comoro Islands 5449	dimethyl-8-(1-methylethylidene)-)	Oscinella frit in, on maize 1926, 2363, 2891
in Czechoslovakia 143	German Democratic Republic	
in Finland 5411		Ostrinia nubilalis in, on maize 1927,
in Italy 6125	Chaetosiphon fragaefolii in, on strawberry 2939	2891, 3887
in USSR 2752	Delia coarctata in	Panolis flammea in 2582
on apple, in Bulgaria 1454		natural enemies of 509
	on grain crops 2866, 2885	pesticide use in 1687, 1688, 1689, 2131
on Betula, food competition in 4099	on wheat 2879	Phyllobius pyri in 4203
on fruit crops, in Crimea 2957	Dorytomus suratus in, on Populus 3603	P. vespertinus in 4203
on hardwood forest trees, dietary	forests in, pest control in 3175	Pityogenes chalcographus in, on conifers
preferences of 4932	grain crops in, pest surveillance on 2884	2062
rearing of, diets for 1850	Leptura aethiops in, on Betula 4639	Plodia interpunctella in, in stored grain
taxonomy of 5295	Melolontha spp. in 5452	588
eometroidea	Metopolophium dirhodum in, on grain	Psila rosae in, on carrot 2023
in Finland 5411	crops 2876	Ptinidae in, in dwellings 3107
taxonomy of 5295	Oscinella spp. in, on maize 2880	Rhopalosiphum padi in, natural enemies
eorgia	O. frit in 2774	of 5524
Artogeia rapae in, on cabbage 2002,	on maize 5383	Scolytidae in 5757
2999	Oulema spp. in, on grain crops 2866	Sipha elegans in, natural enemies of
Chaetocnema confinis in, on sweet potato	O. lichenis in, on grain crops 2882, 2883	5524
3026	O. melanopus in, on grain crops 2882,	Sitobion avenae in, natural enemies of
Conoderus falli in, on sweet potato 3026	2883	5524
Contarinia sorghicola in, natural enemies	Rhopalosiphum padi in	Sphaericus gibboides in, in medicinal tea
of 2407	on barley 5531	4675
Cydia molesta in, on peach 6461	on grain crops 2876	Staphylinoidea in
Cynodon dactylon in, insect pests of	on oats 5531	in maize fields 6358
2412	on wheat 2877	in rye fields 6358
Dendroctonus spp. in, on Pinus 5191	Sitobion avenae in, on grain crops 2866,	Taphrorychus bicolor in, on Fagus 4644
D. frontalis in 558, 1210	2876, 2885	Tenthredinidae in, on forest trees 4627,
natural enemies of 5151	Syrphidae in, in apple orchards 5480	5746
D. terebrans in, on Pinus 5744	German Federal Republic	Thaumetopoea processionea in, on
Epitrix spp. in, on tomato 3541	agricultural entomology in 2157, 2162	Quercus 1588
Eudiagogus spp. in, on Sesbania 1909	Agriotes spp. in, on maize 1926, 2363	Tortricidae in, on Betula 1575, 1576
Graphognathus peregrinus in 3760	Anarsia lineatella in, on peach 1986	Tortrix viridana in 2582
Heliothis zea in 2898	Anobiidae in, in dwellings 3106	natural enemies of 1336
Ips spp. in, on Pinus 5744	Aphidoidea in, in urban areas 4300	on Quercus 1588
I. grandicollis in, natural enemies of	Apis mellifera in, natural enemies of	Xyloterus lineatus in 4629
5151	4440	on Abies 4621
Leptinotarsa decemlineata in, on tomato	Araneae in, in urban areas 2745	Yponomeuta malinellus in, natural
3541		enemies of 1432
	Athalia rosae in, on mustard 3000	
Miridae in 2268	Bupalus piniarius in, natural enemies of 509	germanica, Blattella
Nezara viridula in 6109		germanica, Paravespula (see Vespula
Oliarus vicarius in 515	Carabidae in	germanica)
pecan in, pest control on 2932	in maize fields 6357	germanica, Vespula (Paravespula)
Phloeosinus dentatus in, natural enemies	in rye fields 6357	germanus, Rhyssemus
of 5151	in urban areas 2745	germari, Aelia
Plutella xylostella in, on cabbage 2002,	Ceutorhynchus assimilis in, on rape 3515	Gerromorpha, feeding habits of, evolution of
2999	Coleoptera in, in spruce-bark heaps 3571	2243
Rhyacionia frustrana in, natural enemies	Dasineura brassicae in, on rape 3515	Ghana
of 1567	Diprion pini in 3581	Achaea spp. in 5358
Scarabaeidae in 2184	Ectropis bistortata in, natural enemies of	Anomis leona in, natural enemies of
Spodoptera frugiperda in 3886	509	2552
Synanthedon exitiosa in, on peach 395	Elasmucha grisea in, on Betula 2058	Bathycoelia thalassina in
S. pictipes in, on peach 1461	Elateridae in, on maize 2891	on cacao 4079
Thanasimus dubius in, natural enemies of	Ephestia elutella in	on Citrus 3053
520	in granaries 4118	on Cola 3053
Thysanoptera in 2267	in stored grain 588	Blissinae in 5362
Trichoplusia ni in, on cabbage 2002,	E. kuehniella in, in stored grain 588	Busseola fusca in, on maize 3888
2999	Erannis defoliaria in, natural enemies of	Carebara silvestrii in 5361
eotrichum candidum, in, Galleria	546	Characoma stictigrapta in, on cacao
mellonella, effects of antibiotics on	Eriophyoidea in, on Prunus 5075	1054
5850	Eupoecilia ambiguella in, on grapevine	Coelaenomenodera elaeidis in, natural
eotrupes spiniger	3988	enemies of 362
in UK 80	Euproctis similis in, natural enemies of	Dysdercus voelkeri in 2730
nesting behaviour in 80	1104	Earias biplaga in, natural enemies of
eotrupes stercorarius	Euzophera cinerosella in, on Artemisia	2552
in Irish Republic 3428	1905	Eldana saccharina in, on maize 3888
in cattle dung, effects of soil type on	forests in, pest control in 3175	foodstuffs in, pest control in 6650
3428	gall-forming arthropods in, in urban areas	Formicidae in
eranial (see 2,6-Octadienal, 3,7-dimethyl-,	2746	in cacao plantations 2043
(E)-)	Gelechiidae in, on Betula 1575, 1576	natural enemies of 5363
eranic acid (see 2,6-Octadienoic acid, 3,7-	Hoplocampa minuta in, natural enemies of	Miridae in, on cacao 5359
dimethyl-, (E)-)	1432	Papilionidae in 5360
eranii, Torymus	Hylobius abietis in, in bark heaps 2076	Probergrothius sexpunctatus in 2730
eraniol (see 2,6-Octadien-1-ol, 3,7-	Hylotrupes bajulus in, natural enemies of	Sesamia nonagrioides in, on maize 3888
dimethyl-, (E) -)	4672	stem borers in
eranium dissectum	insecticide use in, legislation on 3181,	natural enemies of 4497
Heliothis virescens on, in Mississippi	3182	on sugar-cane 4497
4606	Ips typographus in, on conifers 2062	Tridesmodes ramiculata in, on Terminalia
H. zea on, in Mississippi 4606	leaf miners in, in urban areas 2746	1578
eranylacetone (see 5,9-Undecadien-2-one,	Lema cyanella in 1904	Gherkin (see Cucumber and gherkin)
6,10-dimethyl-, (E) -)	Leperisinus varius in, on Fraxinus 2053	ghesquierei, Antestiopsis orbitalis
	Lymantria monacha in, on conifers 2061	Gibberella fujikuroi, in, Melanaphis
erbera		sacchari, in China 620
Epichoristodes acerbella on 501	Macrosiphum rosae in, on rose 3301	DESCRIPTION OF OTHER PROPERTY.

in Tenebrio molitor, oxidation of 4233

p-Glucose contd.

```
Gloeophyllum trabeum contd.
Gibberellic acid (see GA)
gibberus, Gonipterus
                                                                                                       in contd.
 Gibbium psylloides
                                                                                                           Eucalyptus wood, effects on termite resistance of 262
     in Egypt 2607
     in West Germany 3107
                                                                                                            wood, effects on Coptotermes lacteus of
    in bakeries, in West Germany 3107
in dried medicinal plants, in Egypt 2607
                                                                                                  glomerata, Melanaspis
in dried medicinal plants, ir in spices, in Egypt 2607 gibboides, Sphaericus gibbosa, Clavigralla gibbosus, Philanthus gifuensis, Aphidius gifuensis, Telenomus giganteus, Blaberus gigantorhynchus, Diptacus gigas, Oryctes Gilbert Islands (see Kiribati) Gilletteella coweni
                                                                                                 glomeratus, Meianaspis
gloreus, Amblyseius
gloriosus, Acolothrips
Glossina morsitans, enzymes in 1795
gloverana, Acleris
gloverii, Tetranychus
gloverii, Insulaspis
p-Glucarie acid.
                                                                                                  D-Glucaric acid
                                                                                                       iron salt
                                                                                                           in Galleria mellonella, phagocytosis of
Gilletteella coweni
control of, insecticides for 3072
in Italy 3072
                                                                                                                  4243
                                                                                                            in Locusta migratoria, phagocytosis of
     on Pseudotsuga menziesii, damage caused
by 3072
gillettei, Euceraphis
                                                                                                        Yponomeuta feeding responses to 4775
                                                                                                       in Bombyx mori, glycerol metabolite
 Gilpinia hercyniae
     control of, biological 6602
                                                                                                  α-D-Glucopyranoside, β-D-fructofuranosyl
     in UK 6602
                                                                                                         (saccharose; sucrose)
     on Picea abies, nitrogen metabolism of
                                                                                                       as cryoprotectant for spores of
           4625
                                                                                                              Microsporidia 1631
4625
Gilpinia marshalli
in Thailand 5175
on Pinus, in Thailand 5175
Gilpinia socia, cocoon of 3730
giluwe, Sosylus
gilvifrons, Stethorus
gilvus, Macrotermes
Ginger (Zingiber officinale)
insect pests of, in Sarawak 2651
Ginger extracts, against, Beauveria bassiana
1360
                                                                                                       diet component for
                                                                                                            Anticarsia gemmatalis 1517
                                                                                                            Ceratitis capitata 806, 1318
                                                                                                           Chrysopa rufilabris 4245
Dacus dorsalis 1851
                                                                                                      Eurygaster integriceps 3746
Ostrinia nubilalis 813
Rhynchophorus ferrugineus 361
in Acanthoscelides obtectus adult diet,
effects on life-span and fecundity of
        1360
                                                                                                              1243
Ginger (spice)
insect pests of, in Egypt 2607
Lasioderma serricorne in, development of
                                                                                                       in Chrysopa carnea diet, effects on
fecundity of 250
in Entomoscelis americana, receptors for
girardi, Uroplata
glabricollis, Athalia
glabrum, Trogoderma
glacialis, Hippodamia
                                                                                                       in Homona coffearia diet, inhibiting
                                                                                                              feeding 1225
                                                                                                       in Locusta migratoria hemolymph, during flight 3251
gladiaria, Agrotis
glareola, Striglina
Glass, tetrachlorvinphos on, persistence of
6651
                                                                                                       in Lymantria dispar diet, effects on virus production of 4935
                                                                                                      production of 4935
in Oxycarenus hyalinipennis diet,
utilisation of 3748
in Oxyrhachis tarandus feces 3748
in Phthorimaea operculella diet, not
affecting fecundity 2025
in sugar-beets, effects of insect pests on
4042
Glasshouse crops
    arthropod pests of
in Canada 2792
in UK 2654
    in UK 2654
Ephydridae on, in Denmark 782
Myzus persicae on, in Bulgaria 1462
pest control on
biological 628, 5953
book 2621, 2622
integrated 3825, 5925
                                                                                                       Spodoptera exempta feeding responses to 5338
                                                                                                 7558
Yponomeuta feeding responses to 4775
α-p-Glucopyranoside, α-p-glucopyranosyl
in Bombyx mori hemolymph, absorption
by ovaries of 4768
in Locusta migratoria hemolymph, during
flight 3251
     Sciaridae on, in Denmark 782
    biocontrol agents in, evaluating effects of
pesticides on 5970
biological control in, pesticide use as
                                                                                                       in Manduca sexta hemolymph, effects of
                                                                                                              neutral red on 5345
affecting 5481
pest control in, pesticide use as
affecting 5481
pest control in, biological 6691
glauca, Notonecta
Glaucomys volans, Lymantria dispar nuclear
polyhedrosis virus in, passage through
gut of 1568
gleditchiae, Dasineura
Gleditsia triacanthos
                                                                                                       in Samia cynthia larvae, metabolism during moulting of 3254
                                                                                                  in Sesamia nonagrioides hemolymph, developmental changes in 4787 β-p-Glucopyranoside, 2-
                                                                                                  (hydroxymethyl)phenyl, Yponomeuta
feeding responses to 4775
Glucose oxidase (see Oxidase, glucose)
Glucose phosphate isomerase (see Isomerase,
glucose phosphate)
     Actenodes davidi on, in USA 1583
Amblycerus robiniae on, in New Mexico
            5199
                                                                                                  D-Glucose
                                                                                                       conjugation of pesticides with 3199 diet component for Dermestidae 178
     Dasineura gleditchiae on, in Oregon
 Glena bisulca, in Colombia 5170
                                                                                                       Ostrinia nubilalis 813 in Acanthoscelides obtectus adult diet,
Gliricidia sepium, use in control of rice pests of 3902
 Glischrochilus quadrisignatus
biology of 3792
                                                                                                              effects on life-span and fecundity of
                                                                                                              1243
rearing of, techniques for 3792 Globulins, blood, in Galleria mellonella
                                                                                                       in crab hemolymph, effects of locust
adipokinetic hormone on 2713
pupae, effects of glycerol and cooling on
synthesis of 3266
globulus, Trigonogenius
Gloeophyllum trabeum
                                                                                                       in Exeristes roborator diet, effects on fatty acids of 3255
                                                                                                       in Leptinotarsa decemlineata, utilisation during flight of 3743 in Locusta migratoria flight muscles, during flight 4228
         Eucalyptus regnans wood, effects on
Nasutitermes exitiosus of 2842
```

in Oxyrhachis tarandus feces 3748

```
with tale, effects on insect pests of glazing
         of rice with 593
    6-(dihydrogen phosphate), in Locusta
migratoria flight muscles, during flight
Glucosidase, in Pyrochroa coccinea gut
      1084
Glucosidase, a-, in Chilo auricilius gut
     5319
Glucosidase, \(\beta\)-, in Chilo auricilius gut
      5319
Glucosides (see Glycosides)
Glucosinolates (see Glycosides, mustard oil)
Glucosyltransferase, uridine
diphosphoglucose-glycogen, in Chilo
suppressalis, activity during diapause of
D-Glucuronic acid, conjugation of pesticides
      with 3199
 Glucuronides (see Glycosides, glucuronides)
Glutamate dehydrogenase (see
      Dehydrogenase, glutamate)
 L-Glutamic acid
    in Calliphora vicina hemolymph
    in Carcinus maenas hemolymph 1212
    in insects, role in muscle pharmacology of
         4774
    in Leptinotarsa decemlineata, decreasing during flight 730
    in locust, as neurotransmitter 749
   in Locusta migratoria, effects on motor activity of 50
   in Locusta migratoria flight muscles,
during flight 4228
in Locusta migratoria hemolymph 1212
       fate of 1211
   in Lucilia sericata, effects on motor
activity of 50
in Lucilia sericata hemolymph 1212
fate of 1211
    in Manduca sexta, effects on cyclic nucleotides in nerve cord of 751
    in Oxycarenus hyalinipennis feces
                                                           3748
    in Periplaneta americana hemolymph
   in rice, role in susceptibility to
Nilaparvata lugens of 915
    in Schistocerca gregaria hemolymph
   in Tenebrio molitor, effects on
neuromuscular junctions of 6045
Nilaparvata lugens feeding responses to
3413
L-Glutamine
in insect hemolymph 1212
Nilaparvata lugens feeding responses to
3413
Glycerides
   in Aphidoidea 1815
   in Ceratitis capitata, stereospecific distribution of fatty acids in 5346 in Ephestia cautella pupae, effects of protective atmospheres on 2605
    in Exeristes roborator, effects of dietary
       glucose on 3255
grain mites 3755
   in Icerya purchasi, incorporation of dietary acetate into 4753 in insects, digestion and absorption of, review 3742
    in Lasioderma serricorne cuticle 5331
    in Locusta migratoria, configuration of
         4225
4225
in Locusta migratoria hemolymph, during flight 3251
in Phenacoccus pergandei 6090
in Spodoptera littoralis, effects of insecticides on 4362, 4363
Glycerol (see 1,2,3-Propanetriol) glycinae, Phalaenoides
    in Bombyx mori diet, absorption from
   mid-gut of 6067
in Hypena iconicalis 2225
in Manduca sexta, effects on cyclic
```

nucleotides in nerve cord of 751

in Oxycarenus hyalinipennis feces 3748 in Spodoptera littoralis, effects of insecticides on 4362, 4363 in Spodoptera littoralis hemolymph, not affected by DDT 3818

ycine contd.	Chambana fustifor (ass I saide doubles	Contatana and Hatan and I
E	Glycyphagus fustifer (see Lepidoglyphus	Gonipterus scutellatus contd.
Nilaparvata lugens feeding responses to	fustifer)	distribution of 5790
3413	Glycyrrhiza glabra (see Liquorice)	EPPO data sheet on 3189
ycine max (see Soyabean)	Glyphipterix simpliciella	in Australia 2081
vcinivorella, Grapholita (see Leguminivora	in UK 5575	in France 2081, 5790
glycinivorella)	on pasture plants, in UK 5575	in Italy 2081, 6587, 6588
v cinivorella, Leguminivora (Grapholita)	Glypta inversa	on Eucalyptus
ycoalkaloids (see Glycosides, alkaloidal)	in Canada 1593	damage caused by 2081
ycogen	parasitising, Choristoneura conflictana, in	in Italy 2081, 6587, 6588
diet component for, Lixophaga diatraeae	Alberta 1593	
		in southern Africa 5169
1316	Glypta rufiscutellaris	on Eucalyptus globulus, in France 5790
in Acheta domesticus fat-body, seasonal	in USA 2825	Gonocephalum macleayi
changes in 4267	parasitising, Epiblema scudderiana, in	biology of 1919
in Antheraea mylitta pupal fat-body	Pennsylvania 2825	control of 1919
	Glyptotermes brevicornis, gut in, redox	in Australia 1919
4470	potential of 4754	gonostigma, Orgyia
in Atractomorpha crenulata fat-body,		
seasonal changes in 4267	Glyptotermes dilatatus	Gonystylus bancanus (wood), Coleoptera in,
in Bombyx mori, glycerol metabolite	in Sri Lanka 4611	in West Kalimantan 4098
	on tea	gonzali, Neophyllobius
4264	effects of shade on 4611	Gooseberry (Ribes grossularia)
in Bombyx mori eggs 729	varietal preferences of 4611	Bryobia ribis on, in UK 1451
in Callosobruchus maculatus,	Gmelina arborea	Cecidophyopsis ribis on 5056
developmental changes in 727		
	Atta spp. on, in Brazil 5770	Nematus ribesii on, in Austria 1755
in Cheyletus eruditus diet, digestion of	Lixus camerunus on 2986	Zophodia convolutella on, in Canada
4231	Gnathotrichus	5057
in Dysdercus cingulatus, effects of	control of, repellents for 1595, 6597	Gorse (see Ulex europaeus)
antibiotics on 3190	in Pseudotsuga menziesii wood, in British	Gortyna, in Europe 993
in fowl yolk sac, effects of malathion on	Columbia 1595	Gortyna borelii lunata
4161	on Pseudotsuga menziesii, in British	descriptions of 993
in insects, reserves of 4266	Columbia 6597	distribution of 993
in Leptinotarsa decemlineata, utilisation	gnidiella, Cryptoblabes	on carrot 993
during flight of 3743	Gnorimoschema operculellum (see	on Peucedanum 993
in Leptinotarsa decemlineata fat-body,	Phthorimaea operculella)	Gortyna flavago
changes in reserves of 5316	gobertii, Phaeonia	descriptions of 993
in Locusta migratoria fat-body, during	Goes tigrinus	distribution of 993
vitellogenesis 55	in USA 1105	on carrot 993
in Locusta migratoria flight muscles,	on Quercus, fungal decay associated with	on globe artichoke 993
during flight 4228	1105	on potato 993
in Manduca sexta fat-body, effects of	Goldenrod (see Solidago)	on Sambucus 993
neutral red on 5345	Goldenrod, rayless (see Isocoma wrightii)	on tomato 993
in Phanerotoma flavitestacea,	Gomelin (see Bacillus thuringiensis)	Gortyna xanthenes franciscae
developmental changes in 6091	Gomphocerinae, flight capacity of,	descriptions of 993
in Pieris brassicae pupal integument	biogeographical patterns in 2797	distribution of 993
4769		
	Gomphrena globosa, bean yellow stipple	on Chrysanthemum 993
in Samia cynthia larvae, metabolism	virus in, infectivity of 4034	on globe artichoke 993
during moulting of 3254	gonagra, Caryedon (see C. serratus)	on Vicia faba 993
in Tessaratoma javanica flight muscles	gonagra, Caryoborus (see Caryedon	Goryphus, parasitising, Lixus camerunus, in
728	serratus)	Nigeria 2986
in Tessaratoma javanica scent glands 728	Gonatocerus	Goryphus mesoxanthus maculipennis
in Zonocerus variegatus eggs, utilisation of	parasitising	in India 906
4961	Nephotettix spp., in Thailand 911	in rice-fields, in West Bengal 906
ycogen (starch) synthase (see	rice hoppers, in Philippines 3908	gossypiella, Pectinophora
Glucosyltransferase, uridine	Gonia cilipeda	gossypii, Aceria
diphosphoglucose-glycogen)	in USSR 2818	gossypii, Aphis
ycolipoproteins, in Manduca sexta 3282	parasitising, Agrotis segetum, in	gossypii, Oligonychus
ycopeptides, in Bombyx mori silk,	Tadzhikistan 2818	gossypii, Phenacoccus
characterisation of 767	Gonimbrasia tyrrhea	Gossypium (see also Cotton)
ycoproteins	on Acacia, in southern Africa 5169	Gossypium barbadense, arthropod pests of,
in Atta pheromone glands 1800	on Populus, in southern Africa 5169	varietal preferences of 3819
in fowl yolk sac, effects of malathion on	on Salix, in southern Africa 5169	Gossypium hirsutum, arthropod pests of,
4161	Gonioctena quinquepunctata	varietal preferences of 3819
		Commission (one 7.11 Honordon 1 of
in Venturia canescens eggs, role in	biology of 1985	Gossyplure (see 7,11-Hexadecadien-1-ol,
preventing encapsulation of 841	colour forms of 1985	acetate, (7Z,11E)-, with (7Z,11Z)-7,11-
ycosides	in Italy 1985	hexadecadienyl acetate)
alkaloidal, in Solanum, role in resistance	on cherry, in Italy 1985	Gossypol (see [2,2'-Binaphthalene]-8,8'-
to Empoasca fabae of 1528, 2493	on Sorbus aucuparia, in Italy 1985	dicarboxaldehyde, 1,1',6,6',7,7'-
in insects, pesticides metabolised to 3199	Gonioctena viminalis, chromosomes in	hexahydroxy-3,3'-dimethyl-5,5'-bis(1-
	4207	methylethyl)-)
in plants, pesticides metabolised to 3199		
mustard oil	Goniophthalmus australis	Gourd, pests of, in Moldavia 3513
in brassicas, role in susceptibility to	in Australia 1921	Gourd, bitter (see Momordica charantia)
Melanoplus of 2466	parasitising, Mythimna spp., in	Gourd, bottle (see Lagenaria siceraria)
in Cruciferae	Queensland 1921	Gourd, ridged (see Luffa acutangula)
role in food-plant preferences of	Goniophthalmus halli	Gourd, smooth (see Luffa aegyptiaca)
	in India 3418	Gourd, snake (see Trichosanthes anguina)
Phyllotreta undulata of 4018		Grace's medium, culture-medium component
role in food-plant selection by	parasitising, Heliothis armigera, in India	
Phyllotreta armoraciae of 282	3418	for, Plodia interpunctella sex-pheromone
in crucifers, role in food-plant	Goniopsita oophaga	glands 4762
preferences of Artogeia napi of	in USA 248	gracilis, Oxidus
2851	preying on, Chloealtis aspasma, in Oregon	gracilis, Phyllocoptes
in Tropaeolum majus, role in food-plant	248	Gracillaria betulicola (see Caloptilia
	Goniozus	betulicola)
preferences of Phyllotreta undulata		
of 4018	parasitising	Gracillariidae, on hardwood forest trees,
cyanogenic, in Lotus corniculatus, effects	Cnaphalocrocis medinalis, in Philippines	dietary preferences of 4932
on Spodoptera eridania of 6239	904	graeca, Xyela
glucuronides, in mammals, pesticides	Stomopteryx subsecivella, in	Graeffea crouanii, defensive secretion in,
metabolised to 3199	Maharashtra 5677	identity of 3984
	Goniozus indicus 904	Grain bins, pest control in, dichlorvos for
ycyphagus destructor (see Lepidoglyphus		
destructor)	Gonipterus gibberus, EPPO data sheet on	4127
ycyphagus domesticus	3189	Grain crops
in Irish Republic 5926	Gonipterus scutellatus	Aelia spp. on, in Spain 3366
in USSR 602, 5803	biology of 2081, 5790	Aphididae on
in beehives, in USSR 602	control of 5790	in India 286
in stored grain, in Irish Republic 5926	biological 2081, 6587, 6588	in UK 6736
m stored gram, in 11180 Kepdone 3720	01010g10d1 2001, 0001, 0000	

Grain crops contd.	Grain (stored) contd.	Grapetruit conta.
Aphidoidea on, population dynamics of	losses of 3621	Eutetranychus banksi on, in Texas
2165	mites in	Indarbela quadrinotata on, in Punjab
aphids on, in England 1388	in Georgia (USSR) 5803	2420 Remanushus situi on in Towns 6488
arthropod pests of	relation of water content and 2158	Panonychus citri on, in Texas 6488
in Canada 2792	pest control in 4670	Phoridae on, in Israel 1126
in Finland 1903, 4476	book 1609	Phyllocnistis citrella on, in Afghanist
in Indiana 2850	fenitrothion for 4660	2968
in Kenya 4181	fumigants for 588, 1115	Phyllocoptruta oleivora on, damage
in New South Wales 2161	fumigation for 6696	caused by 2970
in Quebec 4177	in developing countries 4664	Planococcus citri on
in Scotland 4175	in-transit fumigation for 3636 insecticides for 1115, 3130, 3635	in Israel 3800
in West Germany 2162 in West Malaysia 4723	low temperatures for 3645	in Texas 3500
in Zimbabwe 4720	methacrifos for 3663	Sciaridae on, in Israel 1126
barley yellow dwarf virus in, aphid	non-uniform insecticides for 3655	Grapefruit oil
transmission of 5069	pesticides for 2603	insecticidal activity of 3797
Cephus pygmeus on, in France 1831	sterile-insect release for 5221	synergist for, cypermethrin 3797
Delia coarctata on, assessing infestations	temperature control for 1115	Grapefruit (stored fruit), pest control in
of 2885	traditional methods of 3622	fumigants for 2098
Eurygaster spp. on	pesticides in, determination of 3639	Grapevine (Vitis vinifera)
effects of weather on 5522	Rhyzopertha dominica in, in Western	Aphis citricola on, damage caused by
forecasting infestations of 2874	Australia 4666	941
in Romania 294	Sitophilus spp. in, effects of disturbance	arthropod pests of
in Spain 3366	on 771	in New South Wales 2161
E. integriceps on	Tarsonemus spp. in, in New York 2762	in Queensland 371
in Caucasus 2121	Trogoderma variabile in, in Western	in West Germany 2162
in USSR 1313	Australia 4666	Bostrichidae on, damage caused by
Gonocephalum macleayi on, in	grallarius, Neanastatus	Byctiscus betulae on, damage caused
Queensland 1919 insect pests of	Gralliclava horrens distribution of 2265	2941 Cerosterna scabrator on, in Andhra
assessing infestations of 2866	in Burma 795	Pradesh 2428
forecasting infestations of 6355	in India 795, 1839, 2265	Diaspidiotus uvae on, damage caused
in Byelorussia 2867	in Sri Lanka 795	1754
in UK 6350	Gram, Bengal (see Cicer arietinum)	Eotetranychus carpini on, assessing
surveillance of 2884	Gram, black (see Vigna mungo)	infestations of 2940
losses of, data bank on 1913	Gram, dew (see Vigna aconitifolia)	E. pruni on, damage caused by 370,
Noctuidae on, in Queensland 2671	Gram, green (see Vigna mungo; Vigna	1964
Oulema spp. on, oviposition by 2882	radiata)	Eupoecilia ambiguella on
Pentatomidae on, in Greece 3367, 5520	Gram, horse (see Dolichos biflorus)	assessing infestations of 5590
pest control on 2878, 6350	Gram, red (see Cajanus cajan)	forecasting infestations of 369
book 2621, 3696	Gram, white (see Cicer arietinum)	in Austria 1756
fonofos for 5523	Gramine (see 1H-Indole-3-methanamine,	in Europe 3988
in Bulgaria 5526	N,N-dimethyl-)	in Switzerland 3989
in USSR 6693 insecticides for 5255	Graminella nigrifrons in USA 347	grapevine flavescence dorée, causal ag in, in Corsica 368
integrated 3825	in grassland	grapevine Pierce's disease
pesticides for 1687, 2359, 2629, 2630,	effects of fertilizers on 347	causal agent in
2631	effects of insecticides on 347	in California 5591
thresholds for 5963	maize rayado fino virus in, transmission of	in Florida 6452
ULV sprays for 1673	5532	Graphocephala atropunctata on, in
use of radar in 1278	graminicola, Marietta	California 5591
pests of, in Poland 3373	graminis, Cerapteryx	Heteroptera on, in Pennsylvania 50:
Pterohelaeus spp. on, in Queensland	graminum, Schizaphis	Homalodisca coagulata on, in Florida
1919	granaria, Calandra (see Sitophilus granarius)	6452
Rhopalosiphum padi on	Granaries	insect pests of
forecasting infestations of 2875	Ephestia elutella in, in West Germany	in USA 943
in Sweden 5521	4118	resistance to 1134
Sitibion avenae on, assessing infestations	sealing of 2095 granarium, Trogoderma	Lobesia botrana on
of 2885		assessing infestations of 5590
Syringopais temperatella on damage caused by 1389	granarius, Aphodius granarius, Sitophilus (Calandra)	development of 4347 forecasting infestations of 369
effects of sowing date on 1389	granarius, Tarsonemus	in Austria 1756
Tipula spp. on, in Scotland 864	grandella, Hypsipyla	in Bulgaria 3990
Tipulidae on, in UK 5044	grandiclava, Sceptrothelys	in Egypt 4348, 4399
Grain dust	grandicollis, Ips	Macrodactylus subspinosus on, in Oh
dichlorvos in, reducing residues of 1611	grandiosella, Diatraea	3457
malathion in, reducing residues of 1611	grandis, Alcaeorrhynchus	Noctua fimbriata on, in Greece 196
Grain fields	grandis, Anthonomus	N. orbona on, in Greece 1966
Araneae in, in Switzerland 255	Grandlure (Anthonomus grandis sex	Oides scutellata on, in Himachal Pra
Chrysopa perla in, in Bulgaria 4987	pheromone)	945
Coccinellidae in, population density of 1918	attractant for, Anthonomus grandis 481, 482, 2203, 2530	Oligonychus mangiferus on, developm of 935
Lonchoptera lutea in, in England 2887	formulations of, slow release 481	Oncometopia nigricans on, in Florida
parasitic insects in, in Egypt 3371	in Anthonomus grandis, biosynthesis of	6452
predatory arthropods in, in Egypt 3371	740	Panonychus ulmi on
predatory insects in, in England 5025	mating disrupter for, Anthonomus grandis	assessing infestations of 2940
Grain (stored)	6057	distribution pattern of 3458
arthropod pests of	granella, Tinea (see Nemapogon granellus)	in Austria 1755
book 1609	granellus, Nemapogon (Tinea)	in Pennsylvania 4549
in Kenya 4181	Granida edentula	Peridroma saucia on, in California
in UK 4660	in India 2436	pest control on 371, 2433
Corcyra cephalonica in, feeding by 6639	on fruit trees, in Himachal Pradesh 2436	book 2622
fumigants in, residues of 585	Grape waste	insecticides for 943
Holepyris sylvanidis in, in Americas 3847	Drosophila melanogaster in, in Victoria	integrated 2429, 3825, 5588
	4674 Deimulane in in Victoria 4674	pesticides for 1689, 6441
insect pests of damage caused by 3111	D. simulans in, in Victoria 4674 Grapefruit (Citrus paradisi)	soil flooding for 5058 spraying from helicopters for 558
in Israel 4128	Aleurocanthus woglumi on	systems analysis applied to 2114
in Swaziland 4662	development of 3501	thresholds for 369
insecticide resistance in 3637	in Florida 3502	pest management on 4908
insecticides in, residues of 585	Dialeurodes citri on, in Afghanistan	Scirtothrips dorsalis on, in Japan 14
Lenisma saccharina in in Bermuda 3837	2968	Trioza galii on in Turkey 1310

•		
apevine contd.	Grass, perennial rye (see Lolium perenne)	Grassland soils, decomposers in 3427
Viteus vitifoliae on	Grass, prairie (see Bromus catharticus)	graveolus, Nasutitermes
in Crimea 5587, 5588 in Florida 372	Grass, reed canary (see Phalaris	Grazing
in Ohio 1965	arundinacea)	of grassland, effects on invertebrates of
Kestia c-nigrum on	Grass, Rhodes (see Chloris gayana)	3431, 3437
in California 944	Grass, rye (see Lolium) Grass, smooth brome (see Bromus	of lucerne fields
in Romania 106	racemosus)	effects on Acyrthosiphon of 5880, 5881
pevine (dried fruit) (see Raisins and	Grass, St. Augustine (see Stenotaphrum	effects on Hypera postica of 6436
sultanas)	secundatum)	of pastures, effects on arthropods of
pevine flavescence dorée	Grass, tall fescue (see Festuca arundinacea)	3435
ausal agent	Grass, timothy (see Phleum pratense)	Greater Antilles, Danaus plexippus in 224
in	Grass, western wheat (see Agropyron	Greece
Euscelidius variegatus, transmission	smithii)	Aphididae in
of 368	Grasses	on Citrus 6302
grapevine, in Corsica 368	Anoecia himalayensis on, in Himachal Pradesh 1941	on cotton 6302
Scaphoideus titanus, transmission of 368	arthropod pests of	Aphis gossypii in, natural enemies of 6302
pevine Pierce's disease	in Canada 2792	Aspidiotus nerii in
ausal agent	in UK 5575	natural enemies of 4008, 6495
control of, vector control for 5591	in West Germany 2162	on olive 6491
in	Bryobia praetiosa on, in UK 1451	Cataglyphis bicolor in 2806, 4976
Draeculacephala minerva,	Chrysomelidae on, in Chandigarh 5406	Coccidae in, on Citrus 5622
transmission of 5060	Coccosterphus bengalensis on, in	Corynis similis in, on Papaver rhoeas
grapevine	Bangladesh 4522	479
in California 5591 in Florida 6452	Cofana spectra on 287 Conicobruchus alpina on, in Jammu and	Dacus oleae in
Graphocephala atropunctata,	Kashmir 4201	natural enemies of 1992 on olive 210, 1991, 1993, 1994, 2458,
transmission of 5060, 5591	Euscyrtus concinnus on, in Orissa 1408	5639, 6490, 6492, 6496
Homalodisca coagulata, in Florida	Harpalus rufipes on, in England 5054	Dialeurodes citri in, on Citrus 5632
6452	insect pests of, in New Zealand 4303	Eumenidae in 4737
Oncometopia nigricans, in Florida	Noctuidae on, in Queensland 2671	Myzus persicae in, natural enemies of
6452	Pentodon bidens on, in Italy 4296	6302
vectors of 6669	pest control on 5575	Noctua fimbriata in, on grapevine 1966
pevine yellows disease, causal agent,	book 2621	N. orbona in, on grapevine 1966
vectors of 6669	in USSR 351	Parlatoria oleae in, natural enemies of
aphium, on Annonaceae, in Ghana 5360 aphium pylades	insecticides for 5255 Petrobia latens on, in UK 1451	3799 Pentatomidae in, on grain crops 3367,
iology of 5360	sap-feeding insects on, effects of plant	5520
n Ghana 5360	structure complexity on 4528	Pollinia pollini in, on olive 6494
n Annona muricata, in Ghana 5360	Spodoptera depravata on, in Honshu	Prays oleae in 3507
phocephala atropunctata	4521	Saissetia oleae in
ontrol of, insecticides for 5591	Tetraneura lambersi on, in Uttar Pradesh	natural enemies of 3506, 5640
rapevine Pierce's disease, causal agent in,	1941	on Carduus 5640
transmission of 5060, 5591	Thymelicus lineola on, in Michigan 6245	on olive 6490
n USA 5591	Tipula spp. on, in Scotland 864	Toxoptera aurantii in, natural enemies of 6302
on grapevine, in California 5591	viruses in, arthropod transmission of 3440	greenei, Megarhyssa
n USA 2448	Grasshopper (see Saltatoria)	greeni, Anagyrus
on peach, in Florida 2448	Grassland	greeni, Bracon
easonal abundance of 2448	Acari in, communities of 3421	Greenideini, taxonomy of, chromosomes as
nphognathus leucoloma	animal communities in 3420	characters for 3728
ontrol of, growth regulators for 1430,	Araneae in, in Poland 2819	Greenland, Betula spp. in, insect pests of
4167	arthropods in	5150
liflubenzuron in, effects of 4167	in Irish Republic 3436	gregaria, Atheta
aphognathus peregrinus ontrol of	sampling of 2412 Brachycera in, succession of 3432	gregaria, Schistocerca Gregarina ophoni, in, Harpalus similis, in
growth regulators for 4167	Chrysopa perla in, in Bulgaria 4987	France 6305
insecticides for 2639	Collembola in, communities of 3421	Gremmeniella abietina, in, Pinus spp.,
liflubenzuron in, effects of 4167	Hemicheyletia tumidus in, in Pakistan	relation of Tomicus piniperda and 6602
ecundity in, effects of food-plant on	4982	Grewia tiliaefolia (wood), Microcerotermes
3760	Hemiptera in, effects of cutting on 3434	beesoni in, feeding by 2572
n USA 3760	Heteroptera in, effects of cutting on	grisator, Sthenias
ife-span in, effects of food-plant on 3760	3443	grisea, Dasyhelea
apholita delineana (see Cydia delineana)	insect pests of	grisea, Elasmucha
apholita dimorpha (see Cydia dimorpha) apholita funebrana (see Cydia funebrana)	in England 1757 in Northern Ireland 4184	grisefacta, Dasychira griseus, Stethorus
apholita glycinivorella (see Leguminivora	insects in	Groats, Plodia interpunctella in, in USSR
glycinivorella)	effects of fertilizers on 347	3128
apholita molesta (see Cydia molesta)	effects of insecticides on 347	Gromphadorhina portentosa, gut cuticle in,
apholita prunivora (see Cydia prunivora)	invertebrates in, effects on productivity of	permeability of 5333
pholithae, Calliephialtes	3438	Gronotoma, parasitising, Pseudonapomyza
apholitini, taxonomy of 1174	Macrotermitinae in, litter removal by	gujaratica, in Gujarat 6372
aphosoma lineatum	4524	Ground beetle (see Carabidae)
scorbic acid in, effects of 2699	Oribatei in, in Philippines 6004	Groundnut (Arachis hypogaea) Amrasca biguttula on, in Madhya Prades.
n Morocco 3370 parasitised by, <i>Ooencyrtus</i> spp. 3370	pest control in, long-term consequences of 3439	2487
aphosoma semipunctatum	social Hymenoptera in, in France 123	Amsacta albistriga on, in Tamil Nadu
n Morocco 3370	Tipulidae in, in UK 5044	6527
parasitised by, <i>Opencyrtus</i> spp. 3370	Trinervitermes geminatus in	Anarsia ephippias on, in Madhya Pradesh
ass, annual blue (see Poa annua)	damage caused by 4524, 4526	2487
ass, Bermuda (see Cynodon dactylon)	nest populations of 4525	Anticarsia gemmatalis on, in Florida
ass, blue (see Poa)	soil populations of 4525	5665
ass, browntop (see Agrostis tenuis)	Grassland, arid	arthropod pests of
ass, Buffel (see Cenchrus ciliaris)	Acrididae in	in Andhra Pradesh 4722
ass, cocksfoot (see Dactylis glomerata)	communities of 4523 resource utilisation by 4523	in Egypt 4357 in Gambia 4182
ass, couch (see Agropyron repens) ass, elephant (see Pennisetum	Grassland, dune	Caliothrips indicus on, in India 5468
purpureum)	Isopoda in	Caloglyphus spp. on, in North Carolina
ass, fine fescue (see Festuca rubra)	changes in biomass of 3429	2019
ass, Guinea (see Panicum maximum)	role as decomposers of 3430	Catantops haemorrhoidalis on, feeding by
ass, Johnson (see Sorghum halepense)	Grassland management, invertebrates as	5455 Discrisia obligua on 2737
non Mamerializz himo (con Hon mentanois)	artected by 4441 4447	Lagrisia Ophiqua On 1151

```
Groundnut contd.
                                                                                                Gryllocola thapari contd.
                                                                                                                                                                                               Gryon hungaricus contd.
     Diacrisia obliqua on contd.
                                                                                                    in, Gryllotalpa africana, in Uttar Pradesh
                                                                                                                                                                                                   parasitising
                                                                                                                                                                                                       Lymantria dispar, in Morocco 5288
Orgyia trigotephras, in Sicily 5288
         amino acids in 4029
                                                                                                          4687
    Elasmopalpus lignosellus on assessing infestations of 463 damage caused by 3528, 3529
                                                                                                Gryllodes sigillatus
                                                                                                    cannibalism in 1782
control of, insecticides for 6711
                                                                                                                                                                                               Gryon leptocorisae
parasitising, Reduviidae 5288
                                                                                                    insecticide susceptibility in, effects of
                                                                                                                                                                                                   taxonomy of, Gryon reduviophagus as synonym of 5288
     Frankliniella fusca on, damage caused by
                                                                                                           crowding on 6711
                                                                                                                                                                                                          synonym of
     Graphognathus peregrinus on, oviposition
                                                                                                    nymphal development in, effects of
                                                                                                                                                                                               Gryon nixoni
                    3760
                                                                                                                                     1782
                                                                                                                                                                                                   in Papua New Guinea 1402
                                                                                                          crowding on
     groundnut mottle virus in, imported into
                                                                                                    pigmentation in, effects of growth
                                                                                                                                                                                                   parasitising, Leptocorisa oratorius, in
Papua New Guinea 1402
           India 5676
                                                                                                           regulators on 2219
     Heliothis zea on
                                                                                                    reproduction in, effects of insect growth
                                                                                                                                                                                                   taxonomy of, misidentified as G. flavipes
    Heliotinis zea on development of 1017 in Barbados 5121 Hilda patruelis on, in Zimbabwe 4720 Melanoplus spp. on, in USA 820 mung bean yellow mosaic virus in, in Andhra Pradesh 6528 pest control on, insecticides for 2487 Practical Patricks in Judicial Science 2487
                                                                                                          regulators on 683
                                                                                                                                                                                                          1402
                                                                                                Gryllodinus
                                                                                                                                                                                               Gryon reduviophagus, taxonomy of
                                                                                                    in Soviet Central Asia 13
                                                                                                                                                                                               synonym of G. leptocorisae 5288 Guaiacol (see Phenol, 2-methoxy-)
                                                                                                taxonomy of 13
Grylloidea, life forms of 4735
                                                                                                                                                                                               Guam, biological control in 4696
                                                                                                                                                                                               guamensis, Holoplagia
                                                                                                Gryllotalpa
    Pseudoplusia includens on, feeding preferences of 6201

Pythium spp. in, in North Carolina 2019

Stegasta basqueella on, damage caused by
                                                                                                    burrows of, acoustical properties of 85
                                                                                                                                                                                               guamensis, Trichogrammatoidea
                                                                                                                                                                                               guangdongensis, Telenomus
                                                                                                    control of
                                                                                                        baits for 6585
                                                                                                                                                                                               Guanidine, dodecyl-, monoacetate (see
                                                                                                        insecticides for 1554, 6533
                                                                                                                                                                                                     Dodine)
                                                                                                    on nursery trees, in USSR 6585
                                                                                                                                                                                               Guanidine, N,N"-(iminodi-8,1-
           4038
    Stomopteryx subsectivella on
in Madhya Pradesh 2487
in Maharashtra 5677
in West Bengal 6526
                                                                                                    on sugar-beet, in Belgium 6533
                                                                                                                                                                                                     octanediyl)bis- (see Guazatine)
                                                                                                    on tobacco, in Moldavia 1554
                                                                                                                                                                                                   cyclic 3',5'-(hydrogen phosphate)
in Hyalophora cecropia, role in activity
of eclosion hormone of 3741
                                                                                                    phonotaxis in, role in reproduction of
                                                                                                          6102
     tomato spotted wilt virus in, symptoms of
                                                                                               Gryllotalpa africana
control of, insecticides for 3896
Gryllocola thapari in, in Uttar Pradesh
           2020
                                                                                                                                                                                                        in Manduca sexta nerve cord, effects of
Groundnut, Bambarra (see Voandzeia
                                                                                                                                                                                                              putative neurotransmitters on
                                                                                                                                                                                                        in Mythimna separata, stimulating melanisation 1219
       subterranea
                                                                                                           4687
Groundnut fields, parasitic insects in, in
Andhra Pradesh 6310
                                                                                                    in India 4687
                                                                                               sex chromosomes in 4272
Gryllotalpa fossor (see G. africana)
gryllotalpa, Gryllotalpa
Gryllotalpa gryllotalpa
control of
                                                                                                                                                                                               Guar (see Cyamopsis tetragonoloba)
Guatemala
Groundnut mottle virus
                                                                                                                                                                                                 Ceratitis capitata in 1663, 1670, 4563 cotton in, pest control on 4952, 4953 Danaus plexippus in 2249 forest pests in 5172 Galinsoga spp. in, insect enemies of 4487 pesticide use in 4948
                                                                                                                                                                                                   Allantinae in 1178
Aphis craccivora, transmission of 567 groundnut, imported into India 5676 Myzus persicae, transmission of 5676 Groundnut oil, against, Callosobruchus chinensis, in Vigna radiata seeds 445 Groundnut (stored nuts)
                                                                            5676
                                                                                                    baits for 1043
insecticides for 1043
in Egypt 1013, 1043, 2500
in USSR 4735
life forms of 4735
    aldrin in, residues of 3011
Araecerus fasciculatus in, damage caused
                                                                                                                                                                                               Guava (Psidium guajava)

Anastrus sempiternus on 3074
                                                                                               lite forms of 4735
on cotton, in Egypt 1043
on soyabean, in Egypt 1013
on tomato, in Egypt 2500
Gryllotalpa unispina
control of, insecticides for 677
in China 677
Gryllus, on Cynodon dactylon, assessing
infestations of 2412
Gryllus bimaculatus
                                                                                                                                                                                                   Brevipalpus californicus on, in Egypt
     by 586
Caryedon serratus in development of 2729
                                                                                                                                                                                                   B. phoenicis on, in Madhya Pradesh
         development of infestation with 3146
                                                                                                                                                                                                          4295
    development of infestation with 3146 oviposition by 2729

Dermestes spp. in, development of 3616

Ephestia cautella in, assessing infestations of 3678

HCH in, residues of 3011 heptachlor in, residues of 3011 insect pests of 3145 in Kansas 3679 in Nigeria 6647
                                                                                                                                                                                                    Dacus dorsalis on, in Taiwan 934
                                                                                                                                                                                                   Dasychira mendosa on, in Punjab 2419
Eutetranychus orientalis on, in Madhya
Pradesh 4295
Indarbela quadrinotata on, varietal
preferences of 2420
Pardalaspie copyra on in Kenya 5644
                                                                                               intestations of 2412

Gryllus bimaculatus
body temperature in, measuring of 2727
in Kuwait 1837
sound reception in 750
steering mechanism in 4249
taxonomy of, cephalic characters for 1773
                                                                                                                                                                                                   Pardalaspis cosyra on, in Kenya
                                                                                                                                                                                                   Perissopneumon tectonae on, in Uttar
Pradesh 1997
                                                                                                                                                                                              Pradesh 1997
Guava orchards, Neophyllobius gonzali in, in Egypt 830
Guazatine (N,N"' (iminodi-8,1-octanediy)bis[guanidine]) antifeedant activity of 6191 antifeedant for, Plathypena scabra, on soyabean 4035, 6149, 6191 in soyabean, toxicity of 4035, 6149
Guazuma ulmifolia, Phelypera distigma on, in Costa Rica 5219
guerreronis, Eriophyes guildinii, Piezodorus
Guinea corn (see Sorghum)
    pest control in 6644
fumigants for 3145
                                                                                                Gryllus campestris
         insect growth regulators for 6665 insecticides for 1686, 3145, 3679
                                                                                                     acoustic orientation behaviour in 6285
                                                                                                    diapause in 4781
     Plodia interpunctella in, in New South
                                                                                                    moulting hormones in 4781
                                                                                                Gryllus domesticus (see Acheta domesticus)
           Wales 1701
Trogoderma granarium in, imported into USSR 1607

Xylocoris flavipes in, predation by 2099
Groundsel bush (see Baccharis halimifolia)
                                                                                                Gryllus integer
                                                                                                    flight activity in 2741
in USA 2741
mating in 6043
phonotaxis in, effects of male deprivation
on 2240
Growth stage
    of cotton, effects on Pectinophora
gossypiella of 5715
of Larix occidentalis, effects on
Coleophora laricella of 530
of Phaseolus lunatus, effects on Epilachna
varivestis of 2481
                                                                                               Gryllus pennsylvanicus, in Canada 5407
Gryllus veletis, phonotaxis in, effects of
male deprivation on 2240
                                                                                                                                                                                               Guinea corn (see Sorghum)
Guinea-pig (Cavia cobaya)
pyrethroids in, toxicity of
                                                                                                                                                                                                                                                       1157
                                                                                               Gryon
hosts of 5288
                                                                                                                                                                                               guineense, Tetramorium (see Pheidole
                                                                                                                                                                                              guineensis, Pheidole (Tetramorium)
guineensis, Pheidole (Tetramorium)
guiaratica, Pseudonapomyza
gularis, Aphomia (see Paralipsa gularis)
gularis, Paralipsa (Aphomia)
Gull (see Laridae)
Gum, flooded (see Eucalyptus grandis)
    of radish, effects on Delia brassicae of
                                                                                                    larval head-capsules in 3368
parasitising, Lymantria dispar, in
Morocco 3068
           2006
         effects on Cnaphalocrocis medinalis of
                                                                                                    taxonomy of 5288
                3386
                                                                                                Gryon antestiae
hosts of 3055
                                                                                                                                                                                             Gum, flooded (see Eucalyptus grandis)
gummata, Phragmataecia
gurdaspurensis, Odontotermes
Gusathion (see Azinphos-methyl)
Guthion (see Azinphos-methyl)
gutterrezi, Stethorus
guttata, Deloyala
guttata, Parnara
guttiger, Eysarcoris
guttulosa, Austracris (see Cyrtacanthacris
guttulosa)
guttulosa, Cyrtacanthacris (Austracris)
          effects on Nephotettix cincticeps of
                910
                                                                                                    parasitising, Antestiopsis spp. 3055 taxonomy of, synonym of G. fulviventris
    effects on Nilaparvata lugens of 342
of soyabean, effects on Epilachna
varivestis of 1012, 2011, 2481
of tobacco, effects on Heliothis virescens
of 4076
                                                                                               Gryon flavipes, taxonomy of, Gryon nixoni misidentified as 1402
Gryon fulviventris parasitising, Clavigralla gibbosa 5288 taxonomy of, Gryon antestiae as synonym of 5288
Gryllidae
    in Fennoscandia 139
in Soviet Central Asia
     reproductive strategies in 2748
                                                                                                Gryon hungaricus
in Italy 5288
 Gryllocola thapari
     sp. nov., description of 4687
                                                                                                    in Morocco 5288
                                                                                                                                                                                              guttulosa, Cyrtacanthacris (Austracris)
```

harpagula, Drepana (see Palaeodrepana

ana
lydrellia spp. in, on rice 2373
upela albinella in, on rice 6387
nnoascus, in, insects, pathogenicity of
1637
nnoscelis pumilata (see G. rufifasciata)
nnoscelis rufifasciata
ology of 4351
Egypt 4350, 4351, 4357
n Cynara cardunculus
damage caused by 4351 in Egypt 4350
In Egypt 4550
reyed on by, <i>Chrysopa carnea</i> , in Egypt 4350
aikothrips bengalensis
India 5468
reyed on by, Anthocoridae, in India
5468
androbrotica variabilis
owpea mosaic virus in, transmission of
1011 Costa Rica 1011
Nigna unguiculata, in Costa Rica
1011
androphtalma quadripunctata
India 2449
n Litchi chinensis, in Uttar Pradesh
2449
sum, against, pests of stored products
ocampa, parasitising, Hydrellia spp., in
Karnataka 4510
ilis, Holepyris
probracon hebetor (see Bracon hebetor)
probracon juglandis (see Bracon hebetor) procytus (see Pteromalus)
orocytus (see Pteromalus)
procytus chrysos (see Pteromalus chrysos)
procytus semotus (see Pteromalus
semotus)
rolepis rouxi
osts of, defence mechanisms of 2832
arasitising
Aonidiella aurantii 2832 Aspidiotus nerii 2832 Iena atlantica
Aspidiotus nerii 2832
Canada 996
rane, in Manitoha 996
arasitised by, Banchus flavescens, in Manitoba 996
Manitoba 996
lena sordida (see Apamea anceps)
leninae, in British Isles 103
ematobia irritans exigua, control of,
piological 5290 matoceps, Neoaliturus
morrhoidale, Acanthosoma
norrhoidalis, Catantops
norrhoidalis, Dermestes
norrhoidalis, Heliothrips
iyai, Makivora
ensis, Tetrastichus
lemani, Leptinotarsa fterorum, Phanaeus
ictidae
anthropogenic environments, in France
123
reyed on by, Diogmites missouriensis, in
Arkansas 2336
ictophagus, parasitising, Nilaparvata lugens, in Karnataka 3971
ictus, Dufour's gland in, secretion of
3744
i, Goniophthalmus
otydeus destructor
otydeus destructor ontrol of, biological 5952
otydeus destructor ontrol of, biological 5952 Australia 4533, 5952
otydeus destructor ontrol of, biological 5952 i Australia 4533, 5952 in <i>Lupinus</i> , in Western Australia 4533
otydeus destructor ontrol of, biological 5952 i Australia 4533, 5952 in <i>Lupinus</i> , in Western Australia 4533 erata, Megaselia
otydeus destructor ontrol of, biological 5952 a Australia 4533, 5952 a Lupinus, in Western Australia 4533 erata, Megaselia tica (see Altica) tichella rhyacioniae
otydeus destructor ontrol of, biological 5952 of Australia 4533, 5952 of Lupinus, in Western Australia 4533 erata, Megaselia tica (see Altica) tichella rhyacioniae mergence in 1567
otydeus destructor ontrol of, biological 5952 of Australia 4533, 5952 of Lupinus, in Western Australia 4533 erata, Megaselia tica (see Altica) tichella rhyacioniae mergence in 1567
otydeus destructor ontrol of, biological 5952 of Australia 4533, 5952 of Lupinus, in Western Australia 4533 erata, Megaselia tica (see Altica) tichella rhyacioniae mergence in 1567
otydeus destructor ontrol of, biological 5952 a Australia 4533, 5952 a Lupinus, in Western Australia 4533 erata, Megaselia tica (see Altica) tichella rhyacioniae mergence in 1567 yperparasitising, Rhyacionia frustrana, in Georgia (USA) 1567 USA 1567
otydeus destructor ontrol of, biological 5952 of Australia 4533, 5952 of Lupinus, in Western Australia 4533 erata, Megaselia tica (see Altica) tichella rhyacioniae mergence in 1567

Napomyza lateralis, in Bulgaria 5120

arasitising, Scaptomyza multispinosa, in Chile 2465

ticoptera flavicornis 2463

Iticoptera scaptomyzae n Chile 2465 hamata, Dicranotropis hamelii, Porphyrophora Hampea, Anthonomus hunteri on, in Mexico 8 hampei, Hypothenemus Haplaxius in Florida 20 taxonomy of, synonym of Myndus 4192 Haplaxius cocois, taxonomy of, synonym of Myndus crudus 4192 Haplaxius crudus in USA 20 on coconut, in Florida 20 on turf grasses, in Florida 20 taxonomy of, transferred to Myndus 4192 Haplidia etrusca distribution of 4296 in Italy 4296 in beech woodland, in Italy 4296 Haplodiplosis marginata biology of 871, 6354 control of 6354 in Czechoslovakia 2871 in Romania 871 in UK 6354 on barley, in England 6354 on wheat in Czechoslovakia 2871 in England 6354 in Romania 871 Haplogonatopus
parasitising
Nephotettix nigropictus, in Karnataka 886 Nilaparvata lugens, in Karnataka 886, 3971 rice hoppers, in Thailand 911

Haplogonatopus orientalis 3971

Haplopappus tenuisectus, Xeranobium laticeps on, in Arizona 3873

Haploptilia fuscedinella (see Coleophora serratella) Haplothrips aculeatus in China 315 in USSR 1418 on Bromus racemosus, varietal preferences of 1418 on maize, in China 315 Haplothrips andresi in Cyprus 5078 on Citrus, wind damage attributed to 5078 Haplothrips flavicinctus in Cyprus 5078 on Citrus, wind damage attributed to 5078 Haplothrips ganglbaueri in India 5468 preyed on by, Anthocoridae, in India 5468 Haplothrips tritici Kurd. control of 6693 insecticides for 3375 in USSR 3375, 6693 on wheat, in Kazakhstan 3375 Harminius taxonomy of 23 transferred to Elateridae 25 Harminius dauricus, taxonomy of, transferred to Hemicrepidius 23 Harmonia conformis biology of 3067 in Australia 3067 parasitised by, *Phalacrotophora* spp., in New South Wales 3067 preying on

Psylla candida, in New South Wales 3067 P. jucunda, in New South Wales 3067 Tuberculatus annulatus, in New South Wales 3067 Harmonia octomaculata (see also Coccinella arcuata) attraction of, to light 1888 in Australia 3510 in Australia 3 in India 1888 in India 1888
parasitised by, Perilitus coccinellae 1886
preying on, Planococcus citri, in
Queensland 3510
taxonomy of, misidentified as Coccinella
repanda, in Karnataka 1888
Harmonia quadripunctata, in UK 4998

```
harpagula)
  arpagula, Palaeodrepana (Drepana)
Harpalus affinis
    in Canada 5467
    parasitised by, Microctonus vinelandicus, in Ontario 5467
Harpalus pensylvanicus
in USA 1394
in maize fields, in Iowa 1394
seasonal abundance of 1394
Harpalus rufipes
biology of 5054
Gregarina ophoni in 6305
in UK 5054
in USSR 3456
    in Yugoslavia 2869
    in strawberry fields, in England 5054 in wheat fields, in Yugoslavia 2869
    on Chenopodium album, in England
        5054
    on grasses, in England 5054
    preying on, Dasineura tetensi, in USSR
          3456
 Harpalus similis
    Gregarina ophoni in, in France 6305 in France 6305
Harpephyllum caffrum
    Ceratitis capitata on, development of
          1466
     Cryptophlebia leucotreta on, development
of 1466
harrisella, Phyllonorycter
Harrowing, of pastures, role in pest control of 6432
hartigi, Psylla
hartigii, Dendrosoter
Harvest date
    of cotton, effects on Pectinophora
    gossypiella of 491
of rice, effects on Nilaparvata lugens of
342
 Harvesting
        effects on Acyrthosiphon of 5880 effects on Empoasca fabae of 1953
harveyi, Bessa
hastata, Rheumaptera
 havilandi, Cryptotermes
 Hawaii
    Acacia koa in, arthropods associated with
          1829
     Aphidoidea in 4206
    Apriloidea in 4206 arthropod pests in, new records of 814 biological control in 3185, 4695 cassava in, arthropod pests of 4592 Ceratitis capitata in 3700, 3722
    Dysmicoccus neobrevipes in, on pineapple
          1035
     insect immigration into 4308
    Metrosideros collina in, arthropods
          associated with 1829
    Nysius spp. in 4614
Plagithmysus bilineatus in, on
Metrosideros 4643
Metrosideros 4643
plant pests intercepted in 5966
stored products in, insect pests of 4657
sugar-cane in, insect pests of 2355
hawaiiensis, Chironomus
hawaiiensis, Pristomerus
hawaiiensis, Pristomerus
hawaiiensis, Thrips
Haworthia, Eriophyes aloinis on, damage
caused by 5141
Hay fields, Scarabaeidae in, in Georgia
(USSR) 5577
Hazel (Corylus avellana)
Ambrosiella hartigii in, in Italy 6455
    Ambrosiella hartigii in, in Italy 6455
Asterobemisia carpini on, in Netherlands
          3829
     Curculio nucum on, damage caused by
          6454
    Elasmucha grisea on, in Turkey 4095
Luperus leonardii on, in Italy 4103
Olethreutes clavana on, in New Jersey
1187
    Xanthomonas corylina in, in Italy 6455
Xyleborus dispar on, damage caused by
          6455
 Hazel coppices
Reduviidae in, in Sicily
     Scelionidae in, in Sicily 2430
```

```
Heliothis armigera contd.
 Hazel (stored nuts), Plodia interpunctella in,
                                                                                                                       Hedylepta indicata contd.
        in USSR 3128
                                                                                                                             in India 2487
                                                                                                                                                                                                                                                     control of contd.
 HCB (see Benzene, hexachloro-)
HCH (1,2,3,4,5,6-hexachlorocyclohexane)
                                                                                                                             in Philippines 447
on Phaseolus vulgaris, in Brazil 6510
on soyabean, in Madhya Pradesh 2487
                                                                                                                                                                                                                                                          biological 426, 1493, 2613, 5714, 5948
6002, 6550
cultural 2488
      against
                                                                                                                             on Vigna radiata, in Philippines 447
                                                                                                                                                                                                                                                          growth regulators for 208, 3803, 4163
           Achaea janata, on castor 3033
            Aelia rostrata, on grain crops 3366
                                                                                                                        heimi, Čoptotermes
                                                                                                                                                                                                                                                                  6705
                                                                                                                        Helconinae, venom apparatus in 2672
            Contarinia sorghicola, on sorghum
                                                                                                                                                                                                                                                           insecticide-growth regulator mixtures
                                                                                                                        helianthana, Suleima
helianthi, Acanthiophilus
                                                                                                                                                                                                                                                                   for 6705
                                                                                                                                                                                                                                                    for 6705
insecticide-pathogen mixtures for 169
insecticides for 314, 426, 489, 1042,
1149, 1699, 2021, 3012, 3051, 3418,
4885, 5126, 5679, 6002, 6524, 6525,
6550, 6557, 6705
integrated 3046
non-target effects of 1042
timing of 447
trap plants for 1493
diapause in 1044
endosulfan resistance in, in South Africa
489
EPPO data sheet on 4703
            Dicladispa armigera, on rice 6373,
                    6403
                                                                                                                        Helianthus
                                                                                                                             Aphis armoraciae on 5297
Suleima helianthana on 478
            Elateridae, on tobacco 1554
            Euproctis fraterna, on plum 2447
                                                                                                                      Suleima helianthana on 478
Helianthus annuus (see Sunflower)
Helianthus divaricatus, Eucosma womonana
on, in Oklahoma 2034
Helianthus maximilianii, Smicronyx fulvus
on, in North Dakota 1539
Helianthus petiolaris, Smicronyx fulvus on,
in North Dakota 1539
helichrysi, Brachycaudus
Helichrysum angustifolium (dried flowers),
Pyemotes zwoelferi in 6642
Helicomyia saliciperda
biology of 2583
in Austria 2583
on Salix alba, in Austria 2583
                  lunata, on mulberry
           Heliothis armigera 1149
           Henoms aimera 1144
Hydrellia philippina, on rice 3954
Isoptera, on barley 1393
Nilaparvata lugens 6719
Nisaga simplex, on rice 6418
pests of Citrus 5626
Plocaederus ferrugineus, on cashew
                                                                                                                                                                                                                                                    489
EPPO data sheet on 4703
food-plants of 3418
granulosis virus in, in Tadzhikistan 1630
hemolymph in 4372
illustrations of 1938
in Australia 1938, 2005, 3051, 4608,
5948, 6569
in Botswana 6002
                   4550
    pod borers, on Cajanus cajan 6524
Rhinyptia laeviceps 5263
Sogatella furcifera 6719
Sthenias grisator, on mulberry 378
Zabrus tenebrioides, on wheat 5023
in groundnuts, residues of 3011
in Rhinyptia laeviceps, sex differences in susceptibility to 5263
in soil, residues of 3011
in wheat grain, effects on crops of 6656
resistance to, in, Laodelphax striatella, in
Kyushu 2912
with carbaryl
                                                                                                                       in Austria 2583
on Salix purpurea, in Austria 2583
on Salix purpurea, in Austria 2583
Heliconia, Forcipomyia spp. in bracts of, in
Neotropical region 6011
Heliconia bihai, Tomaspis insignita on, in
Costa Rica 5086
                                                                                                                                                                                                                                                    in Botswana 6002
in Bulgaria 314
                                                                                                                                                                                                                                                  in Bulgaria 314
in Egypt 1042, 2500
in India 426, 1493, 2021, 2488, 2503, 3012, 3418, 4059, 5126, 5659, 5679, 6352, 6524, 6525, 6557
in Israel 1037, 5724
in Japan 4287
in Kenya 1541
in Malawi 2200
in Philippines 447, 449
in Senegal 6550
in South Africa 489
in Thailand 2539, 5128
in USSR 1636, 3378, 5714
in Yemen 4885
life tables for 775
Mermithidae in, in India 3418
Nosema bombycis in, pathogenicity of 5241
                                                                                                                       Heliconia villosa, Tomaspis insignita on, in
Costa Rica 5086
                                                                                                                        Helicopters, use in forest pest management of 6618
      with carbaryl
           against
                 Contarinia sorghicola, on sorghum
                                                                                                                        Helicoverpa armigera (see Heliothis
                         6428
                                                                                                                                armigera)
     Scirpophaga incertulas, on rice 5035 with chlordane, against, Heliothis armigera 1149 with chlorpyrifos, against, Heliothis armigera 1149 with DDT
                                                                                                                       Helicoverpa assulta (see Heliothis assulta)
Helicoverpa fletcheri (see Heliothis
                                                                                                                                fletcheri)
                                                                                                                       Helicoverpa zea (see Heliothis zea)
Helicoccus slavonicus
in Poland 2271
on Galium verum, in Poland 2271
on Ranunculus, in Poland 2271
on Sedum, in Poland 2271
Helicopris bucephalus, sound production in 1776
           against
                 Antigastra catalaunalis, on sesame 1032
                 Heliothis armigera, on Cicer arietinum 2021
                                                                                                                                                                                                                                                             5241
                                                                                                                                                                                                                                                     nuclear polyhedrosis virus in
antigens of 608
pathogenicity of 6670
                 Mythimna unipuncta, on rice 902
                                                                                                                       Heliocopris dillonii
enzymes in 1795
      with dicrotophos, against, Heliothis armigera 1149
                                                                                                                              proline in, as direct energy source 1795
                                                                                                                                                                                                                                                    on Brassica campestris, in Andhra
Pradesh 5659
       with endrin, against, Heliothis armigera
                                                                                                                        Heliothis
                                                                                                                             control of 1276
                                                                                                                                                                                                                                                     on cabbage, damage caused by 2005
       with EPN, against, Heliothis armigera
                                                                                                                                   behaviour-modifying chemicals for
                                                                                                                                                                                                                                                     on Cajanus cajan
                                                                                                                                                                                                                                                          effects of intercropping on 2488 in India 6352, 6524 in Tamil Nadu 6525
1149
with leptophos, against, Heliothis
armigera 1149
with mephosfolan, against, Heliothis
armigera 1149
with methomyl, against, Heliothis
armigera 1149
with parathion, against, Pyrausta
machaeralis, on Tectona 1579
with phosfolan, against, Heliothis
armigera 1149
y-HCH (see Lindane)
HE-24108 (see Carbamic acid, (4-
chlorophenyl), 1-methyl-2-propynyl
              1149
                                                                                                                                          1739
                                                                                                                                  biological 1045, 1662, 1671, 4598, 5125, 5725, 5952 insecticides for 1036, 1549, 1671, 2513, 2514, 2516, 2517, 2528, 4383,
                                                                                                                                                                                                                                                     on Capsicum annuum, in Maharashtra
2503
                                                                                                                                           5725
                                                                                                                                                                                                                                                     on castor
                                                                                                                            mating disruption for 665, 5995
non-target effects of 3547
timing of 1036, 2531
dispersal of 1274, 1284
in Queensland 2671
                                                                                                                                                                                                                                                          development of 4330
in Maharashtra 2503
                                                                                                                                                                                                                                                    on Cicer arietinum
in Delhi 3012
in Karnataka 5679
in Madhya Pradesh 2021
                                                                                                                             on Cicer arietinum, in Mexico 1671
                                                                                                                                                                                                                                                     on cotton
                                                                                                                             on cotton
                                                                                                                                                                                                                                                         in Israel 1037, 5724
in Karnataka 1493, 4059
in New South Wales 4608
in South Africa 489
in Tadzhikistan 5714
in Tamil Nadu 5126
in Thailand 2539
in Yemen 4885
                                                                                                                                  assessing infestations of 1036, 2531
damage caused by 1036
in Colombia 5125, 6023
in Mexico 1662
         chlorophenyl)-, 1-methyl-2-propynyl
         ester)
 hearseiana, Sphyracephala
Heat treatment, for mite control on Apis
mellifera 6300, 6301
                                                                                                                                                                                                                                                                                                               4608, 6569
                                                                                                                                  in Mexico 1002
in Mississippi 2528, 4060
in New South Wales 1518, 4598
in Texas 1549, 5725
resistance to 1047, 2513, 2525
 Heather, Lochmaea suturalis on, in England
        472.1
4721
hebetor, Bracon (Habrobracon)
hebetor, Habrobracon (see Bracon hebetor)
hebraeus, Polistes (see P. olivaceus)
hecabe, Eurema
hectographus, Dryocoetes
Hedera helix
Bryobia kissophila on, in UK 1451
Coccus hesperidum on, in USR 2977
Lichtensia viburni on, in Netherlands
                                                                                                                                    varietal preferences of 2514, 2516,
                                                                                                                                                                                                                                                     on Lablab purpureus, in Karnataka 426
                                                                                                                                          2517
                                                                                                                                                                                                                                                     on maize
                                                                                                                                                                                                                                                   on marze
assessing infestations of 3378
in Bulgaria 314
in Tadzhikistan 5714
on okra, in Karnataka 1493
on pea, development of 775
on Phaseolus Iunatus, development of 2483
                                                                                                                             on crop plants, forecasting infestations of 1276
                                                                                                                            on maize, in Swaziland 1036
on soyabean, in New South Wales 1518
on Vigna radiata, in Thailand 451
population dynamics of, models of 2531
predators of, in Mississippi 2528
preyed on by, Solenopsis invicta 4601
preying on, Heliothis virescens, in Texas
4603
traps for 2531
                                                                                                                                                                                                                   1518
                                                                                                                                                                                                                    2531
                                                                                                                                                                                                                                                    on sorghum
damage caused by 1938
in India 6352
in New South Wales 4608
 hederae, Aphis
 Hedgerows, Symphyta as affected by removal of 1831
                                                                                                                       traps for 2531

Heliothis armigera
attractants for 2200, 4145, 5724
biology of 1938, 6352
control of 6352
 Hedylepta indicata control of
                                                                                                                                                                                                                                                    on sunflower
     insecticides for
timing of 447
in Brazil 6510
                                                                                                                                                                                                                                                         in Kenya 1541
in Maharashtra 6557
in New South Wales 4608
                                                   2487
```

iothis armigera contd.	Heliothis punctigera contd.	Heliothis virescens contd.
n tobacco, distribution pattern of 3051	preyed on by, Nabis tasmanicus 6687	parasitised by contd.
n tomato	pupal development in	Campoletis sonorensis contd.
in Egypt 2500		
	effects of photoperiod on 3289	in North Carolina 2041
in Senegal 6550	effects of temperature on 3289	Cardiochiles nigriceps 3561
in Tadzhikistan 5714	seasonal abundance of 4608	in North Carolina 2041
n Vigna radiata	Heliothis subflexa	Eucelatoria spp. 6316
in Philippines 447	descriptions of 6023	parasitism of, effects on food consumption
varietal preferences of 449	development in, effects of temperature on	of 6316
n wheat, in New South Wales 4608	70	parathion-methyl resistance in, role of
arasites of	in Colombia 6023	enzymes in 6087
defence mechanisms against 836	on Physalis, in Colombia 6023	predators of
effects of insecticides on 3418	Heliothis subflexa × H. virescens 92	defensive activity against 6321
in India 3418	rearing of, diets for 179	in Texas 4603
in Israel 1037	Heliothis tergeminus	
in New South Wales 6569	descriptions of 6023	prepupae of, effects of soil type and
in Thailand 2539	in Colombia 6023	moisture on 776
arasitised by	on Nicotiana, in Colombia 6023	preyed on by, Geocoris punctipes 254,
Campoletis chlorideae 1828	Heliothis virescens	6321
C. flavicincta, in Karnataka 5679	attractants for 665, 4073	pyrethroid resistance in, development of
Campoplex xanthostomus 836	responses of other Heliothis species to	4153
Chelonus blackburni 2815	² 5724	pyrethroids in, metabolism of 656
Diadegma fenestralis 837	Beauveria bassiana in, effects on	rearing of, diets for 179
Parania prima, in Africa 4460	hemolymph proteins of 59	seasonal abundance of 1647
Trichogramma australicum, in	biology of 2295	sex pheromone of, components of 5329
Karnataka 1493	carnitine in 1152	traps for 92, 3323, 4073
T. chilonis, in Thailand 5128	control of	factors affecting catches in 2531
Trichogrammatoidea armigera 2169	biological 2041, 4060	virus-like particles in, transmitted by
T. bactrae, in Thailand 5128	cultural 3561	parasites 2341
est status of 4287	genetic 4797	
redators of	growth regulators for 2985	viruses in, not affecting <i>Apis mellifera</i> 1629
effects of insecticides on 1042	insecticides for 652, 657, 1486, 2310,	Heliothis zea
in Israel 1037		
	3552, 4060, 4069	activity in, diel rhythm of 98
in New South Wales 6569	threshold for 1486	attractants for 5328
reyed on by	descriptions of 6023	maize-oil volatiles as 2649
Bubulcus ibis, in Karnataka 5679	development in, effects of temperature on	responses of other Heliothis species to
Chrysopa boninensis 3041	70	5724
C. carnea 835	diapause in 492	Bacillus thuringiensis in, interactions with
Orius albidipennis 834	emergence in 92	other pathogens of 1626
upae of, distinguishing sexes of 2182	effects of soil type and moisture on	bassianolide in, toxicity of 2111
earing of, diets for 810, 4330	776	Beauveria bassiana in, pathogenicity of
productive potential of 2483	enzymes in 6087	2111
easonal abundance of 1541, 2500, 4059,	variation in 1214	beauvericin in, not toxic 2111
4608	fatty acid methyl esters in, toxicity of	control of
ex pheromone of, components of 2200	5266	biological 1626, 2041, 5894, 6518
aps for 4145	food-plants of 4606	growth regulators for 5029
iprene in, effects of 3803, 4163	fungicides in, toxicity of 3324	insecticides for 660, 1486, 2302, 3552,
iothis armigera armigera, in Sudan 799	in Colombia 6023, 6570	4069, 5115, 5121
iothis armigera conferta	in Mexico 1647, 2295	threshold for 1486, 4891
ontrol of, insecticides for 5889	in Puerto Rico 64	traps for 5646
New Zealand 5889	in USA 92, 492, 1214, 1486, 2041, 2515,	descriptions of 6023
n maize, in New Zealand 5889	2518, 2532, 3552, 4060, 4073, 4603,	development in
n tomato, in New Zealand 5889	4606	effects of air velocity on 1291
arasitised by, Trichogrammatoidea spp.	in Virgin Islands 64	effects of humidity on 1291
4823	in cotton pollen, development of 2519	effects of temperature on 1291
iothis assulta, rearing of, diets for 4878	larval development in, effects of yellow	diapause in 492
iothis fletcheri	cotton pollen on 2542	electrophoresis techniques with 494
iapause in 799	mating competitiveness in, effects of γ-	emergence in
ı Sudan 799	irradiation on 64	effects of soil type and moisture on
n sesame, in Sudan 799	mating disrupters for, determination in air	776
iothis nuclear polyhedrosis virus (see	of 4312	predicting of 167
also Baculovirus heliothis)	mating in, with hybrids 92	fatty acid methyl esters in, toxicity of
gainst	natural enemies of, effects of pesticides on	5266
Chilo auricilius, on rice 4515	2295	food-plants of 4606
Heliothis spp., on cotton 4598	nocturnal behaviour in, effects of γ-	in Antigua 5121
Scirpophaga incertulas, on rice 4515	irradiation on 64	in Barbados 5121
Sesamia inferens, on rice 4515	nuclear polyhedrosis virus in	in Colombia 6023, 6570
1	pathogenicity of 609, 5235	in Honduras 3557
Heliothis virescens, pathogenicity of	polyhedral envelope of 5852	in Mexico 1647, 2295, 2302
5235	on cotton	in USA 65, 460, 492, 1048, 1484, 1486,
H. zea, pathogenicity of 5235	damage caused by 2515, 2518, 6570	2030, 2041, 2532, 2898, 3552, 4051,
iothis obsoleta auct. (see H. armigera)	effects of yellow pollen on 2542	4606, 4899, 5646, 5894
liothis punctigera	in Mexico 2295	kairomones in, effects of diet on 1748
ontrol of	in Mississippi 4060	mark-and-recapture with 1048
biological 5951	in South Carolina 3552	mating disrupters for, determination in air
insecticides for 3051	in Texas 4603	of 4312
iapause in 3289	varietal preferences of 2518, 2532	maysin in, development inhibition by
Australia 3051, 4533, 4608, 5951,	on Geranium dissectum, in Mississippi	5029
6569	4606	Microsporidia in, recovery of spores of
uclear polyhedrosis virus in	on lettuce, in California 1486	613
passage through predator guts of 6687	on soyabean, artificial infestation with	Nomuraea rileyi in
pathogenicity of 6670	4587	in Antigua 5121
n cotton, in New South Wales 4608,	on tobacco	in North Carolina 460
6569	damage caused by 3561, 4076	interactions with other pathogens of
n flax, in New South Wales 4608	in North Carolina 2041	1626
n lucerne, in New South Wales 4608	parasite viruses in, reducing growth rate	pathogenicity of 6675
n Lupinus, in Western Australia 4533	3691 + 2 (c. in Laide)	Nosema acridophagus in, spore
n Medicago, in New South Wales 4608	parasites of	production by 4133
n soyabean, in New South Wales 4608	attraction to food-plants of 2540	N. cuneatum in, spore production by
n sunflower, in New South Wales 4608	effects of insecticides on 4069	4133
n tobacco, distribution pattern of 3051	parasitised by	N. heliothidis in
arasites of, in New South Wales 6569	Brachymeria ovata 4459	effects on fatty acids of 1131
redators of, in New South Wales 6569	Campoletis sonorensis 2341, 3691	not affecting amino acids 1131

```
Heliothis zea contd.
nuclear polyhedrosis virus in
                                                                                                                                                                                                                                                                   Hemicrepidius hemipodus contd.
taxonomy of, Hemicrepidius decoloratu
                                                                                                                                   Helix pomatia, lectins in, receptors in
                                                                                                                                           insects for 6335
            amines in 4686 antigens of 608
                                                                                                                                   helleri, Singhala
                                                                                                                                                                                                                                                                                    as synonym of 23
                                                                                                                                   Hellula hydralis
                                                                                                                                                                                                                                                                     Hemicrepidius hirtus
             interactions with other pathogens of
                                                                                                                                         in Australia 2005
                                                                                                                                                                                                                                                                           distribution of 23
                                                                                                                                  on cabbage, damage caused by 2005

Hellula phidilealis
in Chile 4406
                      1626
                                                                                                                                                                                                                                                                           taxonomy of, transferred from Athous
             pathogenicity of 609, 5235 specificity of 6670
                                                                                                                                                                                                                                                                     Hemicrepidius inornatus
distribution of 23
       on Cicer arietinum, in Mexico 2302
                                                                                                                                         on cabbage, in Chile 4406
                                                                                                                                                                                                                                                                           taxonomy of, transferred from Athous
       on cotton
                                                                                                                                   Hellula rogatalis
            damage caused by
in Antigua 5121
in Barbados 5121
in Honduras 3557
in Mexico 2295
                                                                6570
                                                                                                                                         control of, companionate planting
                                                                                                                                                                                                                                                                     Hemicrepidius niger
distribution of 23
taxonomy of, transferred from Athous
                                                                                                                                                  ineffective for 2471
                                                                                                                                        in USA 1000, 2471
on cabbage
                                                                                                                                              in Florida 1000
in Virginia 2471
      in South Carolina 3552
resistance to, evaluation of 2783
varietal preferences of 2532
on Geranium dissectum, in Mississippi
                                                                                                                                                                                                                                                                     Hemileuca oliviae
calling behaviour in 2922
control of
                                                                                                                                         seasonal abundance of 1000
                                                                                                                                                                                                                                                                          control of
antifeedants for 4173
biological 4459
embryonic development in
effects of humidity on 786
effects of temperature on 786
in USA 2409, 2922
parasitised by, Anastatus semiflavidus, in
Oklahoma 2409
emimetabola embryonic moulting in
                                                                                                                                         control of, insecticides for 5650
                                                                                                                                         descriptions of 411
       on groundnut
                                                                                                                                         in India 5650
             development of 1017
in Barbados 5121
                                                                                                                                         on cabbage, in Andhra Pradesh 5650
                                                                                                                                   helluo, Clytiomya
       on lettuce
             in Arizona 5646
in California 1486
                                                                                                                                   Helodidae
                                                                                                                                         in pine forests, in New Zealand 4875
                                                                                                                                  in pine forests, in New Zealand 4875
traps for 4875
Helopeltis antonii
control of, insecticides for 4550
in India 946, 4550
on cashew, damage caused by 946, 4550
Helopeltis clavifer, descriptions of 3563
helvolus, Metaphycus
hemerobiella, Coleophora
Hemerobiidae
in apple orchards effects of pesticides on
       on maize
                                                                                                                                                                                                                                                                     Hemimetabola, embryonic moulting in
             effects on control of other pests of 4899
                                                                                                                                                                                                                                                                              2187
                                                                                                                                                                                                                                                                    Hemipepsis ustulata
in USA 91
mating in 91
hemipodus, Hemicrepidius
Hemiptarsenus, parasitising, Agromyza
oryzae, in Japan 346
Heminters
      resistance to 304, 1397, 6366
varietal preference of 3885
on Phaseolus lunatus, damage caused by 4891
             in Texas 65
     4891
on sorghum
damage caused by 3417
in Barbados 5121
in North Carolina 2041
in Texas 65
on soyabean
artificial infestation with 4587
distribution pattern of 2013
effects of row spacing on 460
effects of sowing date on 460
effects of sowing rate on 460
in North Carolina 2041
in USA 1484
resistance to 2486
                                                                                                                                                                                                                                                                    Hemiptera
ancestral feeding habits of 3766
aquatic, in California 3781
embryonic moulting in 2187
feeding habits of, evolution of 2243
in New Zealand 4734
                                                                                                                                         in apple orchards, effects of pesticides on 5072
                                                                                                                                         in cotton-field borders, in Queensland
                                                                                                                                                  2546
                                                                                                                                   in potato fields, in Pennsylvania 4916 Hemiberlesia lataniae
                                                                                                                                                                                                                                                                           in apple orchards, effects of pesticides of 5072
                                                                                                                                         control of
                                                                                                                                        control of biological 4570 insecticides for 4400, 5142 descriptions of 5142 in Chile 4570 in Egypt 4400 in USA 5142
                                                                                                                                                                                                                                                                           in barley fields, effects of undersowing of 3433
                                                                                                                                                                                                                                                                          in cacao plantations, in Costa Rica 51 in clover fields, in Egypt 4355 in soil, biology of 2780 in stored groundnuts 3145 on Cajanus cajan, in Nigeria 1016 on forest trees, ecophysiology of, book 5798
             resistance to 2486
       on tomato
                                                                                                                                         on fig, in Egypt 4400
on olive, in Chile 4570
     on tomato
artificial infestation with 2030
assessing infestations of 4051
damage caused by 2030
in California 5894
oviposition in 65, 3885
parasites of
                                                                                                                                         parasites of
                                                                                                                                  in Chile 4570
in Florida 5142
predators of, in Chile 4570
Hemiberlesia rapax
control of
                                                                                                                                                                                                                                                                           on lucerne, assessing infestations of 34 on rice, in Japan 917
                                                                                                                                                                                                                                                                   on rice, in Japan 917
on soyabean
in Kenya 1520
in Missouri 459
in New South Wales 1518
on Spartina patens, effects of patch size
on guilds of 925
on sunflower, in Kenya 1541
preying on, molluscs 4449
semiaquatic, in California 3781
hemipterus, Carpophilus
Hemisarcoptes malus
in USA 1346
in USSR 2949
parasitising, Quadraspidiotus perniciosus
            attracted by kairomones 1748
effects of age on 251
effects of density on 251
effects of kairomones on 4064
poisoned by alkaloids from food-plants
                                                                                                                                        insecticides for 5888
evaluating of 5883
in Chile 4570
in New Zealand 5888
on Actinidia chinensis, in New Zealand
                     1030
       parasitised by
                                                                                                                                                  5888
       Hyposoter exiguae 251, 1030
Microplitis croceipes 1748
predators of, in North Carolina 460
prepupae of, effects of soil type and
moisture on 776
                                                                                                                                         on olive, in Chile 4570
                                                                                                                                   Hemicellulose
                                                                                                                                         in Neotermes bosei diet, digestion of
                                                                                                                                                  6329
                                                                                                                                                                                                                                                                   in USSR 2949
parasitising, Quadraspidiotus perniciosus
in California 1346
preying on, Lepidosaphes malicola, in
Armenia 2949
Hemiteles pulchellus
in Yugoslavia 5792
parasitising
Apanteles spp., in Yugoslavia 5792
Meteorus versicolor, in Yugoslavia
5792
Hemithes aestimatic
                                                                                                                                         in raspberry, effects of Resseliella
theobaldi on 1443
       pupae of
             effects of low pressure on 5428
                                                                                                                                   Hemicheyletia bakeri
      separating from rearing media of 5421 pupal development in, models of 167 pupal survival in 2788 pyrethroids in, metabolism of 656 rearing of, diets for 179 seasonal abundance of 65, 1647 sex pheromone of, components of 5328, 5329
                                                                                                                                         sp. nov., description of 4982
in Pakistan 4982
                                                                                                                                  in leaf litter, in Pakistan 4982
in orange peel, in Pakistan 4982
Hemicheyletia tumidus
sp. nov., description of 4982
in Pakistan 4982
                                                                                                                                                                                                                                                                   Hemithea aestivaria
biology of 1975
descriptions of 1975
distribution of 1975
food-plants of 1975
in Canada 1974, 1975
on apple, in British Columbia 1974
on cherry, in British Columbia 1974
on Crataegus, in British Columbia 1974
on Rubus, in British Columbia 1974
on Rubus, in British Columbia 1974
Hemlock, eastern (see Tsuga canadensis)
Hemp (Cannabis sativa)
Agrotis ipsilon on, in Bihar 2551
Cydia delineana on, in Romania 3047
Diacrisia obliqua on, not developing
                                                                                                                                 in Pakistan 4982
in grassland, in Pakistan 4982
in wheat grain, in Pakistan 4982

Hemicheyletia vescus
sp. nov., description of 4982
in Pakistan 4982
in rice-fields, in Pakistan 4982
in wheat grain, in Pakistan 4982
in wheat straw, in Pakistan 4982
Hemicrepidius, taxonomy of 23
Hemicrepidius dauricus
distribution of 23
taxonomy of, transferred from Har
       soyabean constituents in, growth
inhibition by 2486
tomato extracts in, toxicity of 4048
traps for 65, 1048, 2898
2-tridecanone in, toxicity of 5115
2-tridecanone in, toxicity of 5115
Vairimorpha necatrix in, interactions with
other pathogens of 1626
valinomycin in, toxicity of 2111
Heliothrips haemorrhoidalis
control of, soaps for 1063
in USA 1063
on Laurus, in California 1063
on Viburnum, in California 1063
Heliotox (see DDT, with toxaphene)
Heliotropium europaeum, control of,
biological 5945
                                                                                                                                         taxonomy of, transferred from Harminius
                                                                                                                                   Hemicrepidius decoloratus, taxonomy of, synonym of H. hemipodus 23
Hemicrepidius hemipodus
distribution of 23
```

n contd
p contd.
ecticides in, toxicity of 6700 thimna separata on, in Bihar 2551
vzus persicae on, in India 5497 trinia nubilalis on, in Ukraine 2736
p fields, Syrphidae in, in Poland 1892
icosane, 5,17-dimethyl-, in
ootermopsis angusticollis cuticle,
osynthesis of 766
icosane, 5-methyl-, in Zootermopsis
ngusticollis cuticle, biosynthesis of 766
neicosen-11-one -
mating disrupter for
Orgyia antiqua 6599 O. pseudotsugata 1070, 4106
is, Athetis (Proxenus)
ia, Proxenus (see Athetis hennia)
sepilachna pustulosa
oss-mating of, with, Henosepilachna
vigintioctomaculata 1767 Japan 276
lating mechanisms between H.
vigintioctomaculata and 1767
vigintioctomaculata and 1767 Cirsium kagamontanum, in Honshu 276
276
pulation dynamics of 276 sepilachna vigintioctomaculata
ssephacina viginilociomaculata
pustulosa 1767
oss-mating of, with, Henosepilachna pustulosa 1767 lating mechanisms between H.
pustulosa and 1767
pulation dynamics of 276
sepilachna vigintioctopunctata
nibalism in 3017
pause in 6075
od-plants of 4044 India 3017, 6538
thoprene in, effects on ovarian
development of 6075
nocytes in 3263
Datura fastuosa, development of 4044 eggplant in Karnataka 3017
eggplant
n Karnataka 3017
varietal preferences of 5116
potato n Karnataka 3017
in West Bengal 6538
Solanum, development of 4044
Solanum, development of 4044
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otooeriodism in. effects of diet on
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 sullation dynamics of 276, 6538
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 sullation dynamics of 276, 6538
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 sullation dynamics of 276, 6538
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 eyed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 totrastichus spp., in Karnataka 3017 totoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 zy of 4919
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 sy of 4919 US (see Dieldrin)
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 DD (see Dieldrin) zana, Pandemis
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 D (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 DD (see Dieldrin) rans, Pandemis rin, in cat, counteracting effects of tespa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 sy of 4919 D (see Dieldrin) rans, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8-heptachloro-1,4,7,7a-tetrahydro-4,7-methano-1H-
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 DD (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of tespa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloroa,4,7,7a-tetrahydro-4,7-methano-1H-dene)
Solanum, development of 4044 rasitised by Pediobius Foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 DD (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-ddene) ainst
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 sy of 4919 D (see Dieldrin) rans, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-idene) sinst Agrotis ipsilon 6168
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 D (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) sinst Agrotis ipsilon 6168 Armnemus superciliaris, on Desmodium
Solanum, development of 4044 rasitised by Pediobius Foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 DD (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) ainst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 D (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-idene) ainst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 eyed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 ey of 4919 DD (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of tespa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloroach,4,7,7a-tetrahydro-4,7-methano-1H-ddene) ainst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 diet Diet Diet Diet Diet Diet Diet Diet D
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 apple orchards, in Virginia 4919 by of 4919 in tat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) sinst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460 Carpomyia vesuviana 6477 Euproctis chrysorrhoea, on Rubus 668
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 apple orchards, in Virginia 4919 by of 4919 in tat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) sinst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460 Carpomyia vesuviana 6477 Euproctis chrysorrhoea, on Rubus 668
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 diet Diet Diet Diet Diet Diet Diet Diet D
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 sy of 4919 D (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) shirst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460 Carpomyia vesuviana 6477 Euproctis chrysorrhoea, on Rubus 668 pests of Vigna radiata 433 Pheidole megacephala 5264 mulations of, acidity of 646
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 diet Diet Diet Diet Diet Diet Diet Diet D
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 sy of 4919 D (see Dieldrin) rana, Pandemis urin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) shirst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460 Carpomyia vesuviana 6477 Euproctis chrysorrhoea, on Rubus 668 pests of Vigna radiata 433 Pheidole megacephala 5264 mulations of, acidity of 646 Atta laevigata, effects on respiration of 5460 groundnuts, residues of 3011
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 zy of 4919 D (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) ainst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460 Carpomyia vesuviana 6477 Euproctis chrysorrhoea, on Rubus 668 pests of Vigna radiata 433 Pheidole megacephala 5264 mulations of, acidity of 646 Atta laevigata, effects on respiration of 5460 groundnuts, residues of 3011 soil, residues of 3011
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 by of 4919 DD (see Dieldrin) rans, Pandemis rin, in cat, counteracting effects of lespa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro- a,4,7,7a-tetrahydro-4,7-methano-1H- ddene) ainst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460 Carpomyia vesuviana 6477 Euproctis chrysorrhoea, on Rubus 668 oests of Vigna radiata 433 Pheidole megacephala 5264 mulations of, acidity of 646 Atta laevigata, effects on respiration of 5460 groundnuts, residues of 3011 soil, residues of 3011 soil, residues of 3011 soil, residues of 3011
Solanum, development of 4044 rasitised by Pediobius foveolatus, in Karnataka 3017 Tetrastichus spp., in Karnataka 3017 otoperiodism in, effects of diet on 1529 pulation dynamics of 276, 6538 syed on by, Rhynocoris fuscipes, in Karnataka 3017 zia palmarum USA 4919 apple orchards, in Virginia 4919 zy of 4919 D (see Dieldrin) rana, Pandemis rin, in cat, counteracting effects of espa orientalis venom 1340 achlor (1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-4,7-methano-1H-dene) ainst Agrotis ipsilon 6168 Amnemus superciliaris, on Desmodium 2921 Atta spp. 5770 A. bisphaerica 189 A. laevigata 5460 Carpomyia vesuviana 6477 Euproctis chrysorrhoea, on Rubus 668 pests of Vigna radiata 433 Pheidole megacephala 5264 mulations of, acidity of 646 Atta laevigata, effects on respiration of 5460 groundnuts, residues of 3011 soil, residues of 3011

tacosane, 11,15-dimethyl-, in Tribolium

castaneum cuticle, effects of tricalcium

phosphate on 6176

```
Heptacosane, 3-methyl-, in Tribolium castaneum cuticle, effects of tricalcium
 phosphate on 6176

Heptacosane, 11-methyl-, in Tribolium
castaneum cuticle, effects of tricalcium
phosphate on 6176

Leptacosane 11-2-
 Heptacosane, 13-methyl-
       Colias chrysotheme sex-pheromone
 component 5330
in Tribolium castaneum cuticle, effects of tricalcium phosphate on 6176
4,7-Heptadecadiene, in Oecophylla
         longinoda venom
 Heptadecane
       attractant for, Lycoriella mali 5648
       in Atta cephalotes Dufour's gland
secretion 4235
 8-Heptadecene, in Oecophylla longinoda
 venom 48
3,5-Heptadien-2-one, 6-methyl-, in almond hulls 6453
Heptane, with 1-heptanol, attractant for, Dendroctonus jeffreyi 522
 1-Heptanol
      Dendroctonus jeffreyi aggregation-
pheromone component 522
with heptane, attractant for,
Dendroctonus jeffreyi 522
 2-Heptanol
       Dendroctonus jeffreyi aggregation-
pheromone component 522
in maize oil 2649
 3-Heptanol, 4-methyl-
attractant for, Scolytus scolytus 1096
with α-cubebene, and 5-ethyl-2,4-
dimethyl-6,8-dioxabicyclo[3.2.1]octane,
      attractant for, Scolytus multistriatus
2055, 4924, 5152, 6207
(3R,4R)-, Scolytus scolytus responses to
1801
      1801
(3R,4S)-
in Scolytus scolytus females 1801
in Scolytus scolytus males 1801
Scolytus scolytus responses to 1801
(3S,4R)-, Scolytus scolytus responses to 1801
            attractant for, Scolytus scolytus in Scolytus scolytus males 1801
 Scolytus scolytus responses to 1801
2-Heptanone, in Ascosphaera apis, inhibiting growth 3683
 Heptatriacontane, 11,12-dimethyl-, in

Lasioderma serricorne cuticle 5331

Heptatriacontane, 13,14-dimethyl-, in
Heptatriacontane, 13,14-dimethyl-, in
Lasioderma serricorne cuticle 5331
2-Heptenal, (E)-, in maize oil 2649
4-Hepten-2-one, in maize oil 2649
5-Hepten-2-one, en maize oil 2649
5-Hepten-2-one, 6-methyl-, in Dendroctonus pseudotsugae 3606
5-Hepten-2-one, 6-methyl-, aggregation disrupter for, Dendroctonus pseudotsugae 3606
Heptenophos (7-chlorobicyclo[3.2.0]hepta-2,6-dien-6-yl dimethyl phosphate) in Encarsia formosa, toxicity of 676
D-altro-2-Heptulose, Yponomeuta feeding responses to 4775
heraclei, Euleia
Heracleum, Eupteryx aurata on, in Wales
 Heracleum, Eupteryx aurata on, in Wales
         4484
 Heracleum latent virus
            Cavariella aegopodii, transmission of
                   601
C. pastinacae, transmission of 601
C. theobaldi, transmission of 601
Heracleum sphondylium, in Scotland 600, 601
properties of 601
Heracleum sphondylium
heracleum latent virus in, in Scotland
       viruses in, in Scotland 600
 Herbaria, pest control in, traps for 3615
Herbarium specimens
       Lasioderma serricorne in, in West
       Malaysia 3615
Silvanus bidentatus in, in West Malaysia
               3615
 Herbicides
       books on 3191
```

```
Herbicides contd.
    economic consequences of reduced use of
          5954
     in agricultural soils, not affecting
          arthropod fauna 2758
     in Apis mellifera, toxicity of
     use of, in Australia 623
Herbuloti, Cleora
Hercinothrips bicinctus
control of, insecticides for 988, 2982
in South Africa 988, 2982
on banana, in South Africa 988, 2982
Hercinothrips femoralis
    distribution map for 3303
rearing of, techniques for 1320
Hercothrips indicus (see Caliothrips indicus)
herculea, Ochropleura (Rhyacia)
herculea, Rhyacia (see Ochropleura
herculea)
hercyniae, Gilpinia
Hermit crab, preying on, Achatina fulica
      4983
Herpestomus brunnicornis
in Finland 3569
parasitising, Yponomeuta evonymellus, in
Finland 3569
Herpetomonas, in, Caliroa quercuscoccineae, in Kentucky 6210

Herpisticus eremita, taxonomy of, characters distinguishing H. hierrensis and 9
Herpisticus hierrensis
sp. nov., description of 9
in Canary Islands 9
on Euphorbia canariensis, in Canary
Islands 9
hervali, Acmopolynema
hesperidum, Amitus
hesperidum, Coccus
Hesperiidae, on rice, in India 1930
Hesperioidea, in Finland 5411
hesperus, Lygus
Hessian, tetrachlorvinphos on, persistence of
      6651
Heterandrium, in Trinidad 2768
Heterobostrychus aequalis
in Malaysia 3676
in Dyera costulata wood
development of 3676
imported into Queensland 3676
Heterocampa manteo
in USA 5198
     on Quercus, in Michigan 5198
    body temperature in, measuring of 2727
     migration in, relation of size and height of
          flight during 2740
     pheromones in, recognition of, review
          1725
    taxonomy of 5
traps for 1169
                              5295
Heterococcus rehi (see Brevennia rehi)
heteroneura, Drosophila
Heteronychus arator
control of
        evaluating of 5884 insecticides for 5884
    integrated 350
in Australia 1424
    in New Zealand 350, 4531, 5884
in South Africa 6541
    in lawns and sports turf, in New South
Wales 1424
    in pastures
    assessing infestations of 5884
in New Zealand 350
insecticide resistance in, in New South
Wales 1424
    on posture legumes, resistance to 1 on potato, damage caused by 6541 traps for 4531
Heteropeza pygmaca
biology of 2991
in Taiwan 2991
    in mushroom houses, in Taiwan 2991
paedogenesis in 34

Heterophos (see Phosphorothioic acid, O-ethyl O-phenyl S-propyl ester)

heterophyllus, Pterocallis
Heteroptera
ancestral feeding habits of 3766
feeding habits of, evolution of 2
IAA in, metabolism of 1217
```

Heteroptera contd.	7,11-Hexadecadien-1-ol contd.	8-Hexadecenal, 14-methyl- contd.
in Galápagos Islands 6127 in Mongolia, book 3308	acetate, (7Z,11Z)- with (7Z,11E)-7,11-hexadecadienyl	(Z)- attractant for, Trogoderma granarium
in Soviet Far East 148	acetate	6180
in USA, book 6008	attractant for, Pectinophora	with (E)-14-methyl-8-hexadecenal,
in Yugoslavia 4864	gossypiella 495, 1038, 4072,	Trogoderma granarium responses
in apple orchards, in Norway 5605 in birds' nests, in Hungary 3314	6560, 6562 mating disrupter for, <i>Pectinophora</i>	enantiomers of 743 9-Hexadecenal
in fish ponds, in Hungary 3349	gossypiella 1038, 1745	(Z)-
in grassland, effects of cutting on 3434,	Hexadecanal Heliothis virescens sex-pheromone	attractant for, Iridomyrmex humilis 2803
3443 in mammal nests, in Hungary 3314	component 5329	Heliothis virescens sex-pheromone
on strawberry, in Sweden 5584	H. zea sex-pheromone component 5328	component 5329
on sugar-cane, in Bangladesh 4495	in Heliothis armigera 2200 1-Hexadecanaminium, N,N,N-trimethyl-,	H. zea sex-pheromone component 5328
parasitised by, <i>Ooencyrtus</i> spp. 3369 scent glands in, review 2190	bromide, in diazinon formulations, effects	in Heliothis armigera 2200
Heterorhabditis, in, Otiorhynchus sulcatus,	on insecticidal activity of 6707	Iridomyrmex humilis trail-pheromone component 2803
and biological control using, in Australia	Hexadecanoic acid in Aphidoidea 1815	with (Z)-11-hexadecenal, attractant for
5947 Heterorhabditis bacteriophora	in Ceratitis capitata, stereospecific	Heliothis armigera 5724
in	distribution in triglycerides of 5346 in Exeristes roborator, effects of dietary	9-Hexadecenoic acid, (Z)-, in Exeristes roborator, effects of dietary glucose on
Galleria mellonella	glucose on 3255	3255
bacterial transmission by 3152 effects of 1623	in Tenebrio molitor, oxidation of 4233 in Zootermopsis angusticollis,	11-Hexadecen-1-ol (Z)-
Heterotermes	incorporation into cuticular	Heliothis virescens sex-pheromone
control of, insecticides for 3147	hydrocarbons of 766	component 5329
in cable coverings, damage caused by 3147	hexyl ester, Colias philodice sex- pheromone component 5330	in attractants for <i>Heliothis armigera</i> , reducing catches 5724
Heterotermes indicola	1-Hexadecanol	mating disrupter for
control of, insecticides for 5487	attractant for, Eucera longicornis 4437	Chrysoteuchia topiaria 2410
feeding behaviour in, effects of geomagnetic field on 5491	in Heliothis armigera 2200 acetate	Mamestra brassicae 6059 Plutella xylostella electroantennogram
in Nepal 4673	in Linaeidea aenea defensive secretion	responses to 3721
in Pakistan 1895	4767	with (Z)-11-hexadecenal, Heliothis
in structural wood, in Nepal 4673 swarming in 1895	Mamestra brassicae sex-pheromone component 6059	armigera sex pheromone 2200 with (Z)-11-hexadecenyl acetate
Heterotermes perfidus, legs of, glands in	11-Hexadecenal	Acrolepia alliella sex pheromone
716	(E)-	2692
Heterotrioza alacris in Turkey 1310	Plutella xylostella electroantennogram responses to 3721	Mythimna separata sex pheromone 1224
on Laurus nobilis, in Turkey 1310	with (\hat{Z}) -11-hexadecenal, attractant for,	acetate, (E)-
Hevea brasiliensis (see Rubber) Hexachloran (see HCH)	Chrysoteuchia topiaria 2410 (Z)-	Mamestra brassicae sex-pheromone component 6059
Hexacosane, 4-methyl-, in Lasioderma	attractant for	Plutella xylostella electroantennogram
serricorne cuticle 5331	Acrolepiopsis assectella 3030	responses to 3721
10,12-Hexadecadienal (10E,12E)-	Chrysoteuchia topiaria 2410 Earias biplaga 2200	acetate, (Z)- attractant for, Mamestra brassicae
attractant for, Earias insulana 4061	Heliothis armigera 4145	6059
Earias insulana sex-pheromone component 6056	dispensers for 4145 Heliothis virescens sex-pheromone	in moth attractants, substitutes for 5993
11,13-Hexadecadienal	component 5329	Mamestra brassicae sex-pheromone
(11Z,13Z)-	H. zea sex-pheromone component	component 6059
Amyelois transitella sex pheromone 4764	5328 Plutella xylostella sex-pheromone	Plutella xylostella sex-pheromone component 3721
laboratory synthesis of 4764, 5421	component 3721	with (Z)-11-hexadecen-1-ol
6,11-Hexadecadien-1-ol, acetate, (6 <i>E</i> ,11 <i>Z</i>)-, not able to substitute for (<i>Z</i>)-11-	with (Z)-11-hexadecen-1-ol, Heliothis armigera sex pheromone 2200	Acrolepia alliella sex pheromone 2692
hexadecenyl acetate in moth attractants	with (E)-11-hexadecenal, attractant for,	Mythimna separata sex pheromone
5993	Chrysoteuchia topiaria 2410	1224
8,11-Hexadecadien-1-ol, acetate, (8 <i>E</i> ,11 <i>Z</i>)-, not able to substitute for (<i>Z</i>)-11-	with (Z)-9-hexadecenal, attractant for, Heliothis armigera 5724	with (Z)-11-hexadecenal attractant for
hexadecenyl acetate in moth attractants	with (Z)-11-hexadecenyl acetate	Apamea devastatrix 1135
5993 10,12-Hexadecadien-1-ol	attractant for Apamea devastatrix 1135	Plutella xylostella 1135 mating disrupter for, Plutella
(10E,12Z)-	Plutella xylostella 1135	xylostella 4765
Bombyx mandarina sex pheromone 1168	mating disrupter for, Plutella	with (Z)-9-tetradecenyl acetate,
B. mori sex pheromone 1168	xylostella 4765 with (Z)-13-octadecenal, attractant for,	Mythimna loreyi sex pheromone 1224
in Bombyx mori pupal hemolymph 49	Chilo suppressalis 894	7-Hexadecen-1-ol, acetate, (Z)- (see
11,13-Hexadecadien-1-ol, acetate, (11Z,13E)-, not able to substitute for (Z)-	with (Z)-9-tetradecenal attractant for	Hexalure) 2,4-Hexadienoic acid
11-hexadecenyl acetate in moth	Heliothis armigera 4145	(2 <i>E</i> ,4 <i>E</i>)-
attractants 5993	H. virescens 4073, 5329	in Aphidoidea 1815 in <i>Tribolium confusum</i> eggs, toxicity
11,14-Hexadecadien-1-ol, acetate, (11Z,14E)-, in moth attractants,	dispensers for 4073 12-Hexadecenal, (Z)-, Plutella xylostella	6175
substituting for (Z)-11-hexadecenyl	electroantennogram responses to 3721	diet component for, Trichoplusia ni
acetate 5993 11,15-Hexadecadien-1-ol, acetate, (Z)-, in	13-Hexadecenal, (Z)-, mating disrupter for, Chrysoteuchia topiaria 2410	5427 potassium salt, (2 <i>E</i> ,4 <i>E</i>)-
moth attractants, substituting for (Z)-11-	7-Hexadecenal	in Ascosphaera apis, not inhibiting
hexadecenyl acetate 5993 7,11-Hexadecadien-1-ol	(Z)- Heliothis virescens sex-pheromone	growth 3683 in cheese, for controlling moulds that
acetate, (7Z,11E)-	component 5329	attract mites 3116
with (7Z,11Z)-7,11-hexadecadienyl acetate	H. zea sex-pheromone component	hexagonalis, Xenistusa
attractant for, <i>Pectinophora</i>	5328 in attractants for Heliothis armigera,	Hexakis (see Fenbutatin oxide) Hexalure ((Z)-7-hexadecenyl acetate)
gossypiella 495, 1038, 4072,	not affecting catches 5724	attractant for, Pectinophora gossypiella
6560, 6562 mating disrupter for, <i>Pectinophora</i>	8-Hexadecenal, 14-methyl- (E)-, with (Z)-14-methyl-8-hexadecenal,	3043, 6560 Hexamermis
gossypiella 1038, 1745	Trogoderma granarium responses to	in
	enantiomers of 743 (R)-, Trogoderma granarium responses to	Nephotettix nigropictus, in Karnataka 887
	6061	Nilaparvata lugens, in Karnataka 88

amermis contd.	Hieroglyphus nigrorepletus contd.	Hippophae rhamnoides, Gelechia
contd.	on rice, in Bihar 2900	hippophaella on, in Buryatia 1322
Sogatella furcifera, in Karnataka 887	on sugar-cane, in Punjab 4501	hippophaella, Gelechia
amethonium (N,N,N,N',N',N'-	seasonal abundance of 2900	hirsti, Eotetranychus
nexamethyl-1,6-hexanediaminium)	hierrensis, Herpisticus	hirsuta, Forda
Drosophila melanogaster, toxicity of	hilare, Acrosternum	Hirsutella nodulosa, in, Tarsonemus
6699	hilaris, Bagrada	pallidus, in England 5053
anal, in Oecophylla longinoda	hilaris, Psacothea	Hirsutella thompsonii, in, Apis mellifera, no
anandibular-gland secretion 46, 47	Hilda patruelis	effects from 1629
Manduca sexta, terminating pupal	control of, insecticides for 4720	hirta, Acraspis
diapause 4258	in Zimbabwe 4720	hirtaria, Biston (see Lycia hirtaria)
Sarcophaga crassipalpis, terminating	on groundnut, in Zimbabwe 4720 hilgendorfi, Thereuonema	hirtaria, Lycia (Biston)
pupal diapause 4258	hillerislambersi, Sitobion	hirtipennis, Epitrix hirtula, Leskia
Hexanediaminium, N,N,N,N',N',N'-	himalaica, Fiorinia	hirtum, Nicobium
nexamethyl- (see Hexamethonium)	Himalayan region, Nemapogoninae in 6026	hirtus, Athous (see Hemicrepidius hirtus)
exanol	himalayensis, Anoecia	hirtus, Blissus leucopterus
maize oil 2649	Hippeastrum, Steneotarsonemus laticeps on	hirtus, Hemicrepidius (Athous)
Oecophylla longinoda mandibular-gland	4612	Hishimonus phycitis, eggplant little leaf
secretion 46, 47	hippocastani, Melolontha	disease, causal agent in, transmission of
lasmucha grisea defensive-secretion	Hippodamia, in cotton fields, effects of	474
component 2058	insect-resistant varieties on 1047	Hispa armigera (see Dicladispa armigera)
Dysdercus intermedius scent, synthesis	Hippodamia convergens	hispanicus, Aphytis
of 2224	Coccipolipus epilachnae not parasitising	hispanus, Copris
S)-	457	hispidaria, Apocheima (Biston)
in Niesthrea louisianica exocrine	diel activity in 3537	hispidaria, Biston (see Apocheima
secretions 4236	flight activity in, hormonal regulation of	hispidaria)
in potato 4043	6081	hispidulus, Sitona
Leptinotarsa decemlineata responses to	in Canada 2635	Histamine (see 1H-Imidazole-4-ethanamine)
4043	in Mexico 1647, 2298	Hister bimaculatus (see Peranus
exen-1-ol	in USA 1046, 2528, 3537, 4600, 4603, 4609, 5011, 5720, 6189	bimaculatus)
in potato 4043	in cotton fields	Histeridae in eucalypt forests, in Victoria 5763
Leptinotarsa decemlineata responses to	effects of herbicides on 4600	in pine forests, in Victoria 5763
4043	in Arizona 5720	traps for 3794
lexen-1-ol	in Mississippi 1046	L-Histidine
Z)-	in potato fields, in Pennsylvania 3537	in Sitophilus oryzae diet, requirement for
in potato 4043	in safflower fields, in Mexico 2298	3269
Leptinotarsa decemlineata responses to	in tobacco plantations, effects of	in Spodoptera littoralis, effects of
4043	insecticides on 4609	insecticides on 4363
cetate, (Z)-	insecticides in, toxicity of 3547	in Spodoptera littoralis hemolymph
in potato 4043	overwintering in 4752	effects of nuclear polyhedrosis virus on
Leptinotarsa decemlineata responses to	predation by 5720	6686
4043	preying on	not affected by DDT 3818
xidole (see HCH)	Aphididae, and biological control using,	histrio, Stethorus
xokinase (see Kinase (phosphorylating),	in Chile 4174	Hodotermes mossambicus
hexo-) xosans (see Carbohydrates, hexosans)	Epilachna varivestis, in Indiana 6189 Heliothis spp., in Mississippi 2528	control of, non-target effects of 6328 development in, effects of green plant
deni, Ammophila	H. virescens, in Texas 4603	material on 6334
ydenia, taxonomy of, behavioural	Therioaphis trifolii 2826	Hogweed (see Heracleum sphondylium)
characters for 3845	Zygogramma tortuosa, in California	hokkaidoensis, Lymantria dispar
ydenia unica	5011	Holarctic region, Scelionidae in 6032
nost preferences in 5151	pyrethroids in, toxicity of 2635	Holcocephala fusca
n USA 5151	searching behaviour in 2826	feeding behaviour in 3350
parasitising	seasonal abundance of 1046, 1647	foraging in 3350
Dendroctonus frontalis, in Georgia	Hippodamia glacialis	in USA 3350
(USA) 5151	in Canada 2635 pyrethroids in, toxicity of 2635	prey of 3350 Holcothorax testaceipes
Ips grandicollis, in Georgia (USA) 5151	Hippodamia parenthesis	in Japan 1457
Phloeosinus dentatus, in Georgia (USA)	Coccipolipus epilachnae not parasitising	parasitising, <i>Phyllonorycter ringoniella</i> , in
5151	457	Japan 1457
veri, Acromyrmex	in Canada 2635	Holcus mollis, Auchenorrhyncha on,
HDN (see Aldrin)	pyrethroids in, toxicity of 2635	resource utilisation by 2918
ernalis, Konola	Hippodamia tredecimpunctata	Holepyris
pisci, Amblyseius	biology of 791	in Americas 3847
pisci, Euseius	descriptions of 791 distribution of 791	taxonomy of 3847
pisci, Orthosia		Holepyris floridanus, preying on, Cydia caryana, in Americas 3847
pisci, Rhizoecus Ibiscus	Hippodamia tredecimpunctata tibialis in Canada 2635	Holepyris habilis
Conchaspis angraeci on 506	pyrethroids in, toxicity of 2635	sp. nov., description of 3847
Rhizoecus hibisci on, damage caused by	Hippodamia variegata	in USA 3847
1060	biology of 791, 5469	Holepyris hawaiiensis
biscus cannabinus (see Kenaf)	descriptions of 791	in Nigeria 6646
biscus esculentus (see Okra)	distribution of 791	in cacao beans, in Nigeria 6646
biscus rosa-sinensis	in Bulgaria 1462	phosphine in, toxicity of 6646
Mylabris phalerata on, in Chandigarh	in India 5469	preying on, Ephestia elutella, in Americas
5351	in USSR 3376	3847
Tenuipalpus punicae on, in Madhya	in wheat fields, effects of insecticides on	Holepyris sylvanidis, preying on,
Pradesh 4295	5998	Oryzaephilus surinamensis, in Americas 3847
ibiscus sabdariffa (see Roselle)	insecticides in, toxicity of 2642 preying on	Holly, Japanese (see <i>Ilex crenata</i>)
ickory, black (see Carya texana) ickory, pignut (see Carya glabra)	Aphididae, and biological control using,	Hollyhock (Althaea rosea)
ickory, shagbark (see Carya glaofa)	in Chile 4174	Bryobia cristata on, in UK 1451
coriae, Eotetranychus	grain aphids	Holocerina smilax, on Pinus patula, in
eroglyphicus, Poekilocerus bufonius	and biological control using, in Chile	southern Africa 5169
ieroglyphus banian	5998	hololeucus, Niptus
in India 2900, 4501	in Kazakhstan 3376	Holometabola, embryonic moulting in 2187
on rice, in Bihar 2900	Lipaphis erysimi, in Haryana 5469	Holoplagia guamensis
on sugar-cane, in Punjab 4501	Myzus persicae, in Bulgaria 1462	biology of 2991
seasonal abundance of 2900	Hippodamini	control of, insecticides for 2991
ieroglyphus nigrorepletus	in Portugal 791	in Taiwan 2991 on Agaricus bitorquis, in Taiwan 2991
in India 2900, 4501	in Spain 791	on rigarious onorquis, in Taiwan 2991

Holopterus chilensis	L-Homoserine, O-[(aminoiminomethyl)amin-	Hoplopteridius lutosus contd.
emergence in 1073 flight activity in 1073	o]- contd. in Manduca sexta, effects on behaviour	taxonomy of 3877 Hoplopteridius lutosus anatolicus
in Chile 1073	and neuromuscular activity of 6221	ssp. nov., description of 3877
on Nothofagus dombeyi, in Chile 1073	in Vicia faba 1824	biology of 3877
traps for 1073	Homotropus biguttatus (see Syrphoctonus	control of 3877
Holotrichia	biguttatus)	in Turkey 3877
control of	Homotropus longiventris	on Crocus vernus, in Turkey 3877
insecticides for 6578	in Poland 3995	Hordeum distiction (see Barley)
integrated 500	parasitising, Syrphidae, in Poland 3995	Hordeum vulgare (see Barley)
on coffee, in India 500	Homotropus punctiventris (see Sussaba punctiventris)	horii, Fiorinia Horismenus
Holotrichia consanguinea	Homotropus strigator	hyperparasitising, Anticarsia gemma
control of, biological 3161 in India 2281, 3161, 4501	in Poland 3995	in Colombia 5665
on sugar-cane, in Punjab 4501	parasitising, Syrphidae, in Poland 3995	parasitising, Euplectrus puttleri, in
traps for 2281	Homotropus tarsatorius	Colombia 5665
Holotrichia insularis	in Poland 3995	Horismenus fraternus in USA 5665
in India 4501	parasitising, Syrphidae, in Poland 3995 hondoensis, Oligonychus	parasitising, Euplectrus spp., in USA
on sugar-cane, in Punjab 4501	Honduras	5665
holoxanthus, Aphytis	Callipogon barbatum in, on Citrus 6126	Hormetica, catalogue of 1186
Holymenia clavigera in Brazil 187	Cerambycidae in 6126	Hormetica laevigata
on Passiflora alata, in Brazil 187	Ceratitis capitata in 4563 cotton in, insect pests of 3557	descriptions of 1186 distribution of 1186
seasonal abundance of 187	Danaus plexippus in 2249	Hormiscioideus filamentosus
Homadaula anisocentra, pupae of,	Enoclerus irregularis in 2171	gen. et sp. nov., description of 386
distinguishing sexes of 2047	Eudiagogus pulcher in, on Sesbania 1909	in, Armitermes neotenicus, in Brazil
homalii, Typhlodromus	forest pests in 5172	3867
Homalodisca coagulata	pesticide use in 4948	Hornbeam (see Carpinus betulus)
grapevine Pierce's disease, causal agent in, in Florida 6452	Honey bait component for, Pheidole dentata	horni, Odontota (see Xenochalepus ho horni, Xenochalepus (Odontota)
in USA 2448, 6452	4499	hornigi, Coleophora (Stollia)
on grapevine, in Florida 6452	diet component for	hornigi, Stollia (see Coleophora hornig
on peach, in Florida 2448	Agrotis segetum 4317	horrens, Clavigralla (see Gralliclava
seasonal abundance of 2448	Anastrepha ludens 1666	horrens)
Homalodisca insolita in USA 2448	Aphytis aonidiae 1347	horrens, Gralliclava (Clavigralla) horrida, Acanthomia (see Clavigralla
on peach, in Florida 2448	Chrysopa carnea 169 Cnaphalocrocis medinalis 897	horrida)
seasonal abundance of 2448	Dacus cucurbitae 2282	horrida, Clavigralla (Acanthomia)
Homoarginine (see Lysine, No.	Telenomus alsophilae 6144	horridus, Ceuthorhynchidius
(aminoiminomethyl)-)	in Acanthoscelides obtectus adult diet,	Horse (Equus caballus)
Homoeosoma electellum attractants for 2206	effects on life-span and fecundity of 1243	Horse dung Aphodius tasmaniae in, in New Sout
in Canada 2206	insect fragments in, detecting of 3123	Wales 1948
in USA 1034, 1540, 6260	Honeycombs, Galleria mellonella in,	Pseudopygmephorus smileyi in, in
on sunflower	collecting larvae of 1342	Pennsylvania 2988
damage caused by 1540, 6260	Honeysuckle, fly (see Lonicera xylosteum)	Horseradish (Armoracia lapathifolia)
in Oregon 1034 in Saskatchewan 2206	Hong Kong, Tetranychus piercei in 705 Hop (Humulus lupulus)	Baris lepidii on, in Illinois 4026 glucosinolates in 282
Rhizopus oryzae in, transmission of	arthropod pests of	permethrin in, not toxic 4026
1540	in Tasmania 5416	Phyllotreta armoraciae on
sex pheromone of, components of 2206	in West Germany 2162	food-plant selection by 282
Homofarnesene (see 1,3,6,10-	insect pests of, in UK 4721	phagostimulants for 1367
Dodecatetraene, 7-ethyl-3,11-dimethyl-) Homona coffearia	insecticides in, translocation of 3194 pest control on	Hortensia similis in Colombia 3940
control of, timing of 447	book 2621	on rice, in Colombia 3940
emergence in, dietary requirements for	pesticides for 1687	pathogens of, in Colombia 3940
2192	tetranactin for 6714	hortensis, Balclutha
in Philippines 447	Phorodon humuli on	horticola, Phytomyza
on Vigna radiata, in Philippines 447 rearing of, diets for 1225	damage caused by 3702 in England 1912	hortulanus, Cionus Hospitals, Monomorium pharaonis in,
Homona magnanima	in Poland 3465	central Europe 120
attractants for 1222	in Switzerland 5017	Hostathion (see Triazophos)
in Japan 1222, 3056	Psylliodes attenuatus on, damage caused	Hothouses, Formicidae in, in Manitoba
on tea, in Japan 3056	by 3702	4428
parasitised by Campoplex homonae, in Japan 3056	Tetranychus urticae on in Czechoslovakia 3357	hottentotus, Eurygaster (see E. austria: House dust, mites in, extracting of 52
Trichogramma dendrolimi, in Japan	in UK 268	Howardula, in, Systena blanda, in Cali
3056	hopei, Remphan (see Rhaphipodus hopei)	466
sex pheromone of	hopei, Rhaphipodus (Remphan)	Howardula husseyi
bioassay for 166 identity of 1222	Hoplocampa flava in Poland 3982	in Megaselia halterata
homonae, Campoplex	on plum, damage caused by 3982	effects on life-span of 2990
Homoptera	Hoplocampa minuta	liberation of 2990
ancestral feeding habits of 3766	in Poland 3982	huangi, Phytoseius
feeding habits of, evolution of 2243 in Comoro Islands 5449	in West Germany 1432 on plum, damage caused by 3982	hubbardi, Ataxia
in cacao plantations, in Costa Rica 5133	preyed on by, Forficula auricularia, in	hubbardi, Marginitermes Human feces
in pastures, effects of grazing on 3435	West Germany 1432	Aphodiidae in, in Bangladesh 4403
in soil, extracting of 4872	Hoplocampa testudinea	Scarabaeidae in, in Bangladesh 440
insecticide resistance in 1143	biology of 6463	Human milk, insecticides in, residues o
intracellular symbionts in, review 5435 parasitised by, <i>Ooencyrtus</i> spp. 3369	control of 6462 in Bulgaria 1455	humeralis, Arge
preyed on by, Holcocephala fusca, in	in Poland 6462, 6463	humeralis, Arge humeralis, Lipostemmata
Virginia 3350	in USSR 380, 2953	humeralis, Mordellistena
L-Homoserine, O-amino-, in Manduca sexta,	on apple	humeralis, Rhynchocoris
effects on behaviour and neuromuscular	damage caused by 1455	humeralis, Sitona
activity of 6221 L-Homoserine, O-[(aminoiminomethyl)a-	effects of plant spacing on 380 in Poland 6463	humeralis, Urophorus humeridens, Eriocereophaga
mino]-	in Ukraine 2953	humilis, Hyalopteroides
in Locusta migratoria, inhibiting fluid	varietal preferences of 6462	humilis, Iridomyrmex
secretion in Malpighian tubules 4773	Hoplopteridius lutosus	humilis, Xenocatantops
Aphis fabae feeding responses to 1824	distribution of 3877	humuli, Phorodon

nulus lupulus (see Hop)	Hydrellia contd.	Hydroprene contd.
garicus, Gryon	control of contd.	in Reticulitermes virginicus, effects of
lgary	repellents for 3902	1714
raconidae in 3311 erambycidae in, on <i>Pinus</i> 4109	on rice damage caused by 3946	in Schistocerca gregaria, effects on
oniopterygidae in, in orchards 3467	in Guyana 2373	coloration of 4960 sterilant for, Cydia pomonella 5988
upoecilia ambiguella in, on grapevine	in Karnataka 4510	Hydroprot (see Protein hydrolysate)
3988	in Philippines 2372, 3902, 3960	Hydroquinone (see 1,4-Benzenediol)
eteroptera in	in Tamil Nadu 890, 3941	Hydrotaea dentipes, in cattle dung,
in birds' nests 3314 in fish ponds 3349	parasitised by, Gyrocampa spp., in	intraspecific competition in 3423
in mammal nests 3314	Karnataka 4510	Hydrous triangularis, neurosecretory system in 2211
ites in 3313	Stigmatomyces hydrelliae in, in Italy 4138	Hylastes
ulema spp. in 2881	Hydrellia philippina	control of, insecticides for 3078
est management in 3188	control of	on forest trees, in Sweden 5769
colytidae in, on <i>Pinus</i> 4109 <i>Trocerus fantoma</i> in 3312	insecticides for 3954, 4509, 5034, 6396	Hylastes ater control of, biological 5778
heat in, insect pests of 2868	timing of 6396	in Australia 5763
teri, Anthonomus	in India 3954, 5034, 6396 in Philippines 323, 4509	in New Zealand 5778
aini, Aleurocanthus	in Sri Lanka 324	on Pinus, in New Zealand 5778
adaphis coriandri 1 Spain 3780	in Taiwan 6376	on <i>Pinus radiata</i> , in Victoria 5763 taxonomy of, characters distinguishing <i>H</i>
n fennel, in Spain 3780	on rice	brunneus and 3103
linipennis, Oxycarenus	damage caused by 6376	Hylastes brunneus
alomyodes, biology of 6313	in Kerala 6396	descriptions of 3103
alomyodes argentinensis, taxonomy of, synonym of H. brasiliensis 6313	in Orissa 5034 in Philippines 323, 4509	in Poland 2592, 3103 in Sweden 5769
alomyodes brasiliensis	in Sri Lanka 324	taxonomy of, characters distinguishing H
escriptions of 6313	in Tamil Nadu 3954	ater and 3103
n Brazil 6313	parasites of, in Sri Lanka 324	Hylastes cunicularius, in Sweden 5769
arasitising, <i>Lagria villosa</i> , in Brazil 6313	seasonal abundance of 6396 Hydrocarbons	Hylastes nigrinus
axonomy of, Hyalomyodes argentinensis	in Alphitobius diaperinus cuticle 4790	control of, repellents for 6597 in Canada 6597
as synonym of 6313	in Alphitophagus bifasciatus cuticle 4790	on Pseudotsuga menziesii, in British
alomyodes triangulifera	in Atta cephalotes Dufour's gland	Columbia 6597
piology of 520	secretion 4235	Hylastinus obscurus
n USA 520 parasitising, <i>Thanasimus dubius</i> , in	in Attagenus unicolor cuticle, developmental changes in 40	in Chile 932 on <i>Trifolium pratense</i> , in Chile 932
Georgia (USA) 520	in Colias sex pheromones 5330	reproductive system in, seasonal changes
alophora cecropia	in insect cuticle, review 6064	in 932
closion hormone in, role of cyclic GMP	in Oecophylla longinoda venom 48	Hylemya
in activity of 3741 closion in, regulation of 1807	in Zootermopsis angusticollis cuticle 765, 766	oviposition-deterring pheromone in 87 oviposition in 87
nzymes in 736, 4241, 4784	hydrocephala, Microscolia	Hylemya antiqua (see Delia antiqua)
at-body in 4241	Hydrochloric acid	Hylemya brassicae (see Delia brassicae)
mmune proteins in 748	diet component for	Hylemya cilicrura (see Delia platura)
uvenile hormones in accumulation of 4784	Ceratitis capitata 1318 Dacus dorsalis 1851	Hylemya coarctata (see Delia coarctata) Hylemya floralis (see Delia floralis)
transfer to females of 6083	Hydrogen phosphide (see Phosphine)	Hyles euphorbiae
nid-gut in, ion transport across 6054	Hydrogen sulfide, in flooded soil, role in	on Euphorbia, and biological control
nyocardium in, development of 4748	parathion degradation of 2147	using, in Canada 6339
ootassium in, uptake from mid-gut of	Hydrolase, in Musca domestica, role in trichlorphon resistance of 1812	on Euphorbia esula and biological control using
ubidium in, uptake from mid-gut of	Hydrolase, chitin (see Chitinase)	in Montana 4479
1785	Hydrophilidae	in Quebec 4483
alopteroides humilis	on Eichhornia crassipes, in Mexico 1665	preyed on by, Formicidae, in Canada
parasitised by Aphidius urticae 2886	traps for 3794 Hydrophilus triangularis	6339 Hylesinus oleiperda
A. uzbekistanicus 2886	in USA 5556	acoustic communication in 549
alopterus amygdali, on peach, varietal	preying on, Chironomidae, in California	pheromonal communication in 549
preferences of 6473	5556	stridulatory apparatus in 549
alopterus pruni	Hydroprene (ethyl (2E,4E)-3,7,11-trimethyl-2,4-dodecadienoate)	Hylobius control of, insecticides for 3078, 5769
oiology of 5611 control of 5611	against	on forest trees, in Sweden 5769
n France 5076	Choristoneura occidentalis 5154, 5155	taxonomy of, characters distinguishing
n Poland 3465, 3982	Ephestia cautella, in groundnuts 6665	Perihylobius and 2173
n UK 5611 on peach, in France 5076	for regulating development and silk production in <i>Bombyx mori</i> 2844	Hylobius abietis control of
on Prunus, damage caused by 5611	in Choristoneura occidentalis, effects on	biological 5206
on Prunus persica × P. davidiana, in	reproduction of 5155	growth regulators for 4088
France 5076	in Coptotermes formosanus, no effects	insecticides for 3175, 4088, 6602
preyed on by, Aphidoletes abietis, in Poland 3465	from 1714 in <i>Diploptera punctata</i> , effects of 3231	flight activity in 4619 humidity responses in 1290, 6114
aluronic acid, in Pimpla turionellae	in Dysdercus koenigii, effects of 3233	in Austria 4638
accessory glands 3340	in Galleria mellonella, effects on moulting	in Czechoslovakia 4088
blaeidae, in Arunachal Pradesh 2756	of 754	in Sweden 4619, 5206, 5768, 5769
oneri, Piezodorus dara tenuicornis	in Gryllodes sigillatus, effects on pigmentation of 2219	in UK 6602 in USSR 3080
n Nigeria 454	in Icerya purchasi, effects of 3815	in West Germany 2076, 3571
on Vigna unguiculata, in Nigeria 454	in Manduca sexta, termination of diapause	in pine-bark heaps, in West Germany
dei, Drosophila	by 6077	2076
drachnellae, in Norway 4407	in Megoura viciae, developmental changes in sensitivity to 4715	in spruce-bark heaps, in West Germany 2076, 3571
dralis, Hellula drangea, Eupulvinaria hydrangeae on, in	in Microctonus aethiopoides, effects of	on Pinus
New Zealand 160	6241	in Czechoslovakia 4088
drangeae, Eupulvinaria (Pulvinaria)	in Microctonus colesi, effects of 6241	in Sweden 5206
drangeae, Pulvinaria (see Eupulvinaria	in Myzus persicae, effects of 1717 in Planococcus citri, effects of 3815	on Pinus sylvestris, in Austria 4638 Pleistophora hylobii in, in USSR 3080
hydrangeae) edrellia	in Prorhinotermes simplex, inducing	sterilisation of, chemosterilants for 4088
control of	soldier caste formation 5001	Hylobius pales
biological 3941	in Reticulitermes flavipes, effects of 1714	in USA 1590
insecticide-pathogen mixtures for 3941	in Reticulitermes santonensis, inducing	traps for 1590 Hylohius ninastri, in Sweden 5769

Hyloicus laricis	Hypera postica contd.	Hyperomyzus lactucae contd.
biology of 3081	control of contd.	in Poland 2438
in USSR 3081	growth regulators for 6241	preyed on by, Syrphidae, in Poland 24
on Larix, in USSR 3081	insecticides for 356, 4922, 4927	Hyperparasitism, model 6312
hylotomae, Spathimeigenia	integrated 1955	Hyphantria cunea
Hylotrupes bajulus	models of 1955	adult activity in, effects of light on 32
control of 3138	timing of 4922	biology of 1973, 3075
growth regulators for 6663	cytoplasmic incompatibility in 6240	book 1601
insecticides for 2097	Entomophthora phytonomi in	control of 1973
in UK 3138	in Delaware 4538	biological 1127, 3075, 5845
in West Germany 4672	in Michigan 4538	insecticide-pathogen mixtures for 58
in Yugoslavia 5964	in Missouri 352	timing of 3075
in structural wood, in England 3138	in New Jersey 4538	cytoplasmic polyhedrosis virus in
parasitised by, Rhoptrocentrus piceus, in	in Pennsylvania 4538	
West Germany 4672	enzymes in 4534	pathogenicity of 4141
Hylurgopinus opaculus	hyperparasites of, in Colorado 1428	properties of 6218
Ceratocystis ulmi in, transmission of	in Iraq 3451	diapause in, effects of photophase on
3087, 5209, 6600	in Mexico 1655	EPPO data sheet on 4703
control of 5209	in Romania 2414	food-plant races of 6030
in USA 5209	in UK 5575	food preferences of 1573
life-cycle of 5209	in USA 352, 355, 356, 1428, 1951, 1955,	in France 3075, 3854
on <i>Ulmus</i> , in Kansas 5209	4534, 4538, 4540, 4927, 5580, 6138,	in Japan 102, 1601
taxonomy of, Hylurgopinus rufipes as	6243, 6436	in South Korea 1127
synonym of 2590	in USSR 174	in USA 6030 A A 10 A 1450 Telef
Hylurgopinus rufipes	life tables for 4540	in USSR 1973, 2946
in USA 6207	on lucerne	in Yugoslavia 5793
taxonomy of, synonym of H. opaculus	assessing infestations of 174	maculation in
2590	damage caused by 5580	effects of photoperiod of 102
traps for 6207	effects of cutting date on 1655	effects of temperature on 102
Hylurgops, stridulatory apparatus in 549	effects of grazing on 6436	methoprene in, interactions between
Hylurgus ligniperda	in Kentucky 4540	viruses and 6728
control of, biological 5778	in New York 355, 1955	nuclear polyhedrosis virus in
in Australia 5763	in Pennsylvania 356	interactions between growth regulator
in New Zealand 5778	in Romania 2414	and 6728
on Pinus, in New Zealand 5778	in Virginia 4927	properties of 1127
on Pinus radiata, in Victoria 5763	resistance to 6138	on Acer negundo, in France 3075
hymenanthis, Fiorinia	on pasture plants, in UK 5575	on apple, distribution pattern of 1573
Hymenia recurvalis	overwintering in 2414	on fruit trees
in Chile 4406	oviposition in, effects of parasitism on	in Caucasus 1973
in Kenya 4843	355	in USSR 2946
migration in 4843	parasites of	on Juglans nigra, in New York 6030
on beet, in Chile 4406	effects of grazing on 6436	on Prunus serotina
Hymenoptera book 6265	effects of host density on oviposition by 2926	distribution pattern of 1573 in New York 6030
epimeropostnotal bridge in 2677	effects of insect growth regulators on	on Quercus borealis, in Yugoslavia 57
in Lithuania 5386	6241	parasites of, in France 3075
in Mongolia, book 3308	effects of insecticides on 356	parasitised by
in North America, book 3309, 3310,	parasitised by	Compsilura concinnata, in France
6123	Bathyplectes curculionis	3854
in apple orchards, in Norway 5605	in Ĉolorado 1428, 6243	Nemoraea pellucida, in France 3854
in barley fields, effects of undersowing on	in Oklahoma 6436	hypnorum, Tachyporus
3433	in Romania 2414	Hypocala subsatura
in cacao plantations, in Costa Rica 5133	B. stenostigmus 67	in Japan 4287
in clover fields, in Egypt 4355	Diadegma fenestralis, in Iraq 3451	pest status of 4287
in lucerne fields, sampling of 3449	Meigenia mutabilis, in Romania 2414	Hypochlorous acid, sodium salt, suface-
in maize fields, effects of monoculture on	populations of 1951, 4534	sterilant for, Lymantria dispar eggs
6371	preyed on by, Frankliniella tritici 3450	5795
in oak forests, not affected by Bacillus	seasonal abundance of 2414	hypocrita, Sipalinus (Sipalus)
thuringiensis 3098	Hypera punctata	hypocrita, Sipalus (see Sipalinus hypocrit
in sweet-potato fields, effects of monoculture on 6371	in Japan 5051 on <i>Trifolium</i> , in Honshu 5051	Hypodiranchis, parasitising, Scaptomyza
in vegetable fields, in South Carolina	Hypera variabilis (see H. postica)	multispinosa, in Chile 2465 hypofrons, Phyllocoptes
2984	hypericella, Fomoria (Nepticula)	Hypogastrura denticulata, preyed on by,
in wheat fields, effects of burning of	hypericella, Nepticula (see Fomoria	Pergamasus longicornis 3422
stubble on 2889	hypericella)	Hypogeococcus festerianus
mesopostnotum in 2677	hyperici, Agrilus	food-plant specificity in 2857
on forest trees, ecophysiology of, book	hyperici, Chrysolina	in Argentina 2857
5798	Hypericum perforatum	in Paraguay 2857 :
on Larix decidua, in Poland 2593	Agrilus hyperici on, and biological control	on Eriocereus, and biological control
on soyabean, in Kenya 1520	using, in Montana 4479	using, in Queensland 6337
parasitic, traps for 171	Chrysolina hyperici on	on Eriocereus martinii, and biological
parasitising, Phyllonorycter spp., in	and biological control using	control using, in Queensland 2857,
England 4622	in Montana 4479	5498
pheromones in, complexity of 1732, 1733 social, book 5451	in Quebec 4483	on Eriocereus tortuosus, and biological
hyoscyami, Pegomya	C. quadrigemina on and biological control using	control using, in Queensland 2857 Hypomicrogaster tiro
Hypena iconicalis	in Montana 4479	in Egypt 3371
amino acids in 2225	in Quebec 4483	parasitising, Cnephasia spp., in Egypt
pH in 2225	Hypericum prolificum, Fomoria hypericella	3371
Hypera brunneipennis	on 2168	Hyponomeutidae, rearing of, diets for 18
insecticide resistance in, models of 353	Hyperodes bonariensis (see also Listronotus	Hyposoter
on lucerne, models of 353	bonariensis)	parasitising
Hypera nigrirostris	control of	Artogeia rapae 2335
in UK 5575	cultural 1419	Mamestra brassicae 2335
on pasture plants, in UK 5575	insecticides for 1419	Pieris brassicae 2335
Hypera postica	timing of 1419	Hyposoter didymator
Beauveria bassiana in, in Romania 2414	diapause in 1419	in Israel 1037
biology of 1655 control of 1655	in New Zealand 1419	parasitising, Heliothis armigera, in Israe
antifeedants for 4173	on Lolium multiflorum, effects of sowing date on 1419	1037 Hyposoter exiguae
biological 355, 356, 4540, 4922	Hyperomyzus lactucae	host age as affecting 251
economics of 6138	control of, biological 5947	host density not affecting 251
cultural 6436	in Australia 5947	parasitising, Heliothis zea 251, 1030

pject Index		1003
posoter exiguae contd.	Ichneumon sarcitorius contd.	Illinoia lambersi
oisoned by alkaloids from host food-	parasitising, Noctua spp., in Greece 1966	in USA 1061
plants 1030	Ichneumonidae	on Rhododendron, in New Hampshire
posoter fugitivus fugitivus	biology of 6689	1061
arasitising, Malacosoma americanum	hosts of 839	Illinois
2341	in Finland 3860	Agrotis ipsilon in 6168
irus-like particles in, transmission to	in Lithuania 5388	on maize 307
hosts of 2341	in Romania 839	Aphis craccivora in, on soyabean 6188
posoter tricoloripes n Poland 3592	in cotton fields, effects of herbicides on	Autographa precationis in, on soyabean
parasitising, Lymantria dispar, in Poland	in orchards, in Lithuania 3466	458 Raris lanidii in on horseradish 4026
3592	in pine forests, effects of shrub vegetation	Baris lepidii in, on horseradish 4026 Cerotoma trifurcata in 6190
pothenemus hampei, oviposition in,	on 2075	on soyabean 4588
effects of berry consistency on 5730	in rape fields, effects of insecticides on	Datana integerrima in 6223
poxylon mammatum, in, Populus	3516	Diabrotica spp. in, on maize 5540
tremuloides, associated with insect damage 3084	parasitising	D. longicornis in, on maize 3889, 6250
psauchenia subfusca, thoracic sclerites	Datana integerrima, in USA 6223	D. virgifera in 6248
and sutures in 5301	Epiblema scudderiana, in Pennsylvania	Frankliniella tritici in, on soyabean 1511
psipyla ferrealis	2825	Magicicada spp. in 2244
n Brazil 1075	Microlepidoptera, in West Germany	M. cassinii in 4635
on Carapa guianensis, damage caused by	1575, 1576 Phyllogography on in England 4623	pest management in 6690
1075	Phyllonorycter spp., in England 4623 Syrphidae, in Palaearctic region 3346	Phyllonorycter blancardella in 2950 Sericothrips variabilis in, on soyabean
parasitised by, Trichogrammatoidea hypsipylae 2169	Tenthredinidae, in Europe 5773	1511
psipyla grandella	viruses in, in reproductive system 5244	Smicronyx fulvus in, on sunflower 2033
n El Salvador 5172, 5174	Ichneumoninae, in USSR 158	Typhlocyba pomaria in, on apple 6468
n Trinidad and Tobago 1075	Ichneumonoidea	wood-boring insects in, on Quercus 1105
on Carapa guianensis, damage caused by	book 6265	Xenochalepus horni in, on soyabean
1075	in wheat fields, effects of burning of	3006
on Cedrela, in El Salvador 5172, 5174	stubble on 2889	illota, Carcelia illudens, Vatiga
parasitised by, Trichogrammatoidea hypsipylae 2169	parasitising, Rhyacionia duplana, in Scotland 5157	ilsae, Paederus
psipyla robusta, parasitised by,	Ichneutinae, venom apparatus in 2672	Ilyocoris cimicoides
Trichogrammatoidea robusta 2169	iconicalis, Hypena	in Hungary 3349
psipylae, Trichogrammatoidea	Idaho	in fish ponds, in Hungary 3349
steroneura setariae	Adelges laricis in	Imbrasia cytherea, on Pinus radiata, in
food-plants of 3316, 3918	on Larix 1083 on Picea 1083	southern Africa 5169
n Brazil 1014 n Sierra Leone 3918	Ceanothus sanguineus in, insect pests of	Imbrasia cytherea clarki, on Pinus patula, in southern Africa 5169
in Taiwan 3316	4090	Imidan (see Phosmet)
on rice, damage caused by 3918	Choristoneura occidentalis in 2056	1H-Imidazole-4-ethanamine, in
on wheat, in Brazil 1014	Coleophora laricella in, on Larix 2567	Chenopodium quinoa, role in resistance
predators of, in Taiwan 3316	Dendroctonus ponderosae in 4617	to Myzus persicae of 3295
seasonal abundance of 3918	D. pseudotsugae in 3606	1H-Imidazole, dodecyl-, in Spodoptera
soyabean mosaic virus in, transmission of 1014	on Pseudotsuga 560 Ips pini in, on Pinus 1571	littoralis, not modifying effects of permethrin on nerve cord 6715
vsteropterum, Spiroplasmataceae in, in	Megachile rotundata in, natural enemies	imitatus, Tarsonemus
Morocco 6668	of 1952	immigrans, Drosophila
vstrichopsylla talpae, air resistance of	Myzus persicae in, on potato 5694	immobilis, Acarus
1784	Orgyia pseudotsugata in	Immune sera
strix, Abacarus	on Abies 5216 on forest trees 3102	to allethrin isomers 5257 to Bacillus larvae 1624
weli, Sosylus A (1H-Indole-3-acetic acid)	Scolytus ventralis in, on Abies 2586,	to Chilo iridescent virus 3163
in cotton, effects on Aphis gossypii of	6635	to Dendroctonus frontalis 3864
4074	Sitona lineatus in 4580	to Dendroctonus terebrans 3864
in Heteroptera, metabolism of 1217	on pea 4582	to Tipula iridescent virus 3163
in Lygus disponsi, metabolism of 737	Vespula acadica in, natural enemies of	immunis, Pemphigus
ssinae, in New World 1762 A (1H-Indole-3-butanoic acid)	1341 Idarnes. in Trinidad 2768	Immunity in insects, review 3157
in Lygus disponsi, metabolism of 737	Idiocerus nigroclypeatus, taxonomy of,	in invertebrates, review 5231
use in mulberry cell cultures of 808	transferred to Idioscopus 4010	Immunodiffusion (see Gel diffusion tests)
eris amara	Idioderma virescens	Immunofluorescence (see Fluorescent
glucosinolates in 282	in USA 5583	antibody technique)
Phyllotreta armoraciae on, not feeding	on palm trees, in Florida 5583 Idioscopus clypealis	imparis, Prenolepis Imperata cylindrica, Eriophyes imperata on,
282 eris umbellata	in India 4010	in Egypt 1769
glucosinolates in 282	on mango	imperata, Eriophyes
Phyllotreta armoraciae on, not feeding	in Andhra Pradesh 4010	Imperator (see Cypermethrin)
282	in Delhi 4010	impexus, Pullus (see Scymnus impexus)
e plant (see Carpobrotus edulis)	Idioscopus nigroclypeatus	impexus, Scymnus (Pullus)
eland, Betula spp. in, insect pests of 5150	in Burma 4010 in India 4010	impicticeps, Nephotettix (see N. virescens) impus, Spathius
on Casuarina, in India 703	on mango	inaequalis, Coelophora
parasitised by, Oricoruna arcotensis, in	in Bihar 4010	incarnatus, Anagrus
India 703	in Burma 4010	incertulas, Schoenobius (see Scirpophaga
erya aegyptiaca	in Karnataka 4010	incertulas)
in India 703	taxonomy of, transferred from <i>Idiocerus</i>	incertulas, Scirpophaga (Schoenobius;
parasitised by, Oricoruna arcotensis, in India 703	4010 Idioscopus shillongensis	Tryporyza) incertulas, Tryporyza (see Scirpophaga
erya purchasi	in India 1887	incertulas)
control of, growth regulators for 3815	preyed on by, Ballia eucharis, in	incertus, Tetrastichus
development in	Meghalaya 1887	Incisitermes barretti, gut in, redox potential
effects of food-plant on 3815	idiota, Pentodon	of 4754
effects of temperature on 3815	Ilattia octo (see Amyna octo)	Incisitermes fruticavus
hydroprene in, effects of 3815	Ilex, Oryctes nasicornis on, in Italy 4296	sp. nov., description of 5119 in USA 5119
in Egypt 4358 kinoprene in, effects of 3815	Hex crenata, Oligonychus ilicis on, effects of insecticides on 4917	on Rhus ovata, in California 5119
lipids in, incorporation of dietary acetate	Ilex paraguensis, Sibine barbara on, in	on Simmondsia californica, in California
into 4753	Brazil 2044	5119
eryi, Pulvinaria	ilicis. Oligonychus	includens, Pseudoplusia
chneumon sarcitorius	Illeis cincta, Perilitus coccinellae not	inclusum, Trogoderma
in Greece 1966	parasitising 1886	incompletus, Stethorus

Creatonotos gangis in, on Eleusine

India contd.

inconspicua, Drino (see Palexorista inconspicua) inconspicua, Palexorista (Drino) inconspicuella, Microthrix Incurvaria, in Poland 3246 Indarbela quadrinotata in India 2420 on Citrus, varietal preferences of 2420 on guava, varietal preferences of 2420 indentella, Surattha Achaea janata in natural enemies of 476 on castor 3033, 5710, 5711 Acheta domesticus in 4267 Acrida exaltata in 4747 Acrocercops caeruleus in natural enemies of 6581 on coffee 6581

A. cramerella in, on Litchi chinensis 408 A. phaeospora in, on Eugenia jambolana 2459 Adisura atkinsoni in, on Lablab purpureus 426 agricultural entomology in 4183, 4722, 6000 Agrotis ipsilon in natural enemies of 2337 on hemp 2551
Aleurolobus barodensis in, natural enemies of 2352 Altica cyanea in, on Rosa 2553
Amrasca biguttula in on castor 5710 on cotton 2039, 5719, 6561 on okra 413 on potato 2494 on sunflower 5712 A. devastans in on cotton 1553, 2543, 3038, 4067 on okra 1492, 4017, 5649 Amsacta albistriga in, on groundnut 6527 A. moorei in 5101 Andaspis numerata in 6583 Androthrips spp. in, on Lantana camara 2853 Anomis sabulifera in, on jute 3559, 5131, 6571 Anthaxia baconis in, on Rosa 2553 Antheraea spp. in 2846 Anthocoridae in 5468 Antigastra catalaunalis in, on sesame 4055 Aphididae in 1941, 4861 on Cyperaceae 286 on Poaceae 286 Aphidinae in 3777 Aphidoidea in, on potato 5691 Aphis citricola in natural enemies of 4979 on Citrus 401 A. craccivora in, natural enemies of 2820, 5108 A. fabae in, natural enemies of 2820 A. gossypii in on cotton 3038, 5126, 6563 on cucumber 5660 on okra 1492 on squash 5660 on squash 5660
Apion corchori in
natural enemies of 1051
on jute 1051, 3559, 6571
Apis florea in, mite enemies of 602
Apsylla cistellata in, on mango 990
Argyroploce leucaspis in, on Litchi
chinensis 6497
arthropods in 1750, 1751, 1752, 3239
Assuania spp. in, on banana 1996
Athalia lugens in
on Brassica juncea 2475
on radish 1675
Atherisona approximata in, on Atherigona approximata in, on Pennisetum americanum A. soccata in natural enemies of 921 on sorghum 1416, 2404, 2405, 2915, 5041, 5042 Atractomorpha crenulata in 4267 on mustard 5659 Aulacophora foveicollis in, on Commelina 2349 A. lewisii in, on Commelina 2349

India contd. Azolla spp. in, insect pests of 278 Bagrada hilaris in, on Brassica juncea 2475 Baliothrips biformis in, on rice 890, 3391, 3923, 6414 Balocha bifurcata in, on Eugenia jambolana 3614 Basilepta subcostatum in, natural enemies of 1479 Batocera rufomaculata in, on mango 991 Bemisia tabaci in on tomato 471 on Vigna radiata 441 Betulaphis longicornis in, on Betula 5210 biological control in 3185, 4693, 6001 Brachmia arotraea in natural enemies of 3392 on rice 3392 Braconidae in 4446 Brevicoryne brassicae in, on sarson 1534 Brevipalpus californicus in, on Citrus 6487 B. phoenicis in B. phoenicis in
natural enemies of 2451
on Citrus 2451
on medicinal plants 5014
on Parthenium hysterophorus 1364
Bruchidae in 2665, 4197, 4198
Cajanus cajan in, insect pests of 2488
Calacarus jasmini in, on Jasminum 3726
Caliothrips indicus in, on potato 2494
Callosobruchus analis in, natural enemies
of 6666 of 6666 Caprithrips spp. in 6027 Carvalhoia arecae in, on Areca catechu 6446 arthropod pests of 5063 insect pests of 946 Cerococcus spp. in, on coffee 4083 C. ornatus in, natural enemies of 6577 Cerodontha oryzivora in, on rice 3935 Cerosterna scabrator in, on grapevine 2428 Ceutorhynchus asperulus in, natural enemies of 5675 Chaitophorus spp. in, natural enemies of 2765 Chalcidoidea in 4462 Chilo spp. in, on rice 3930 C. auricilius in natural enemies of 2903 on rice 4515, 5559 C. infuscatellus in natural enemies of 5 on sugar-cane 1371 5021 C. partellus in on maize 1924, 2365 on sorghum 1416, 1936, 2408, 2915, 2916, 5573 Chloropulvinaria psidii in, natural enemies of ¹6582 Chrotogonus trachypterus in 4747 Chrysomelidae in 5406 cinnamon in, insect pests of Cionus hortulanus in, on Celsia 856 Citrus in, pest control on 5626 Cnaphalocrocis medinalis in Cnaphalocrocis medinalis in natural enemies of 3392 on rice 335, 1933, 3922, 3932, 3931, 3941, 3945, 3949, 5550, 5557, 6415 Coccidae in, on Shorea 1359 Coccinelidae in 1888 Coccus viridis in, on mandarin 5635 coconut plantations in, predatory arthropods in 2821 Cofana spectra in natural enemies of 2908 on sugar-cane 2353 coffee in coffee in insect pests of 4082
pest control on 500
Colaspoides spp. in, on Rosa 2553
Conicobruchus alpina in, on grasses 4201 Contarinia sorghicola in natural enemies of 1417, 3416 on sorghum 5571, 5574, 6428 Corcyra cephalonica in 6639 Coreidae in 795, 796, 1839, 1840, 2265 cotton pests in, natural enemies of 3558

coracana 2369 Cricula trifenestrata in, on Machilus 4624 crop pests in 1902 Cryptoblabes gnidiella in, on Azolla Curculionoidea in 5306, 5404, 5405 Cydia pomonella in 5251 Cysteochila ablusa in, on Bauhinia Dacus cucurbitae in, on Cucumis utilissimus 5663 D. dorsalis in, on cashew 2431 Dasineura lini in, on flax 2550 Dasychira mendosa in, on fruit trees 2419 Dermaptera in 797 Diacrisia obliqua in natural enemies of 1640 on sugar-beet 5684 on sunflower 2035, 2509 Dialeurodes citri in, on Citrus 5625 Dichocrocis punctiferalis in natural enemies of 2822 on cardamom 283 on cardamom 2 on castor 2506 Dicladispa armigera in on rice 907, 3894, 5561, 6374, 6403, 6415, 6422 on weeds 2375 on wheat 3894 Drosicha mangiferae in, on mango 1481 Drosophilidae in 4202 Dysdercus koenigii in, on Abutilon Earias spp. in on cotton 5126 on okra 1492, 4017 E. insulana in on cotton 2543 on okra 5649 varietal preferences of 2464 E. vittella in natural enemies of 2815 on cotton 2543 on okra 5649 varietal preferences of 2464 Eichhornia crassipes in, insect enemies of Encyrtidae in 4191, 4196
Eoeurysa flavocapitata in, on sugar-cane
3359 Eotetranychus uncatus in, on medicinal plants 5014 Eothrips coimbatorensis in, on Jasminum 2554 Eriophyidae in 4727
Eriosoma lanigerum in, on apple 5071
Euproctis fraterna in, on plum 2447
E. xanthorrhoea in, on sunflower 2509
Eurhynchothrips ordinarius in, on
Jasminum 2554 Euscyrtus concinnus in, on rice 901, Eutrichosiphum betulae in, on Betula 1089 Euzophera perticella in, on eggplant 5706 Exelastis atomosa in, on Cajanus cajan 6525 Fiorinia theae in, natural enemies of fruit trees in, insect pests of 2436 Gastrimargus transversus in 2796 groundnut in, pest control on 2487
Gryllotalpa africana in, natural enemies o 4687 natural enemies of 1493, 3418 on Cajanus cajan 6525 on Capsicum 2503 on castor 2503 on Cicer arietinum 2021, 3012, 5679 on Cicer arietinum 2021, 3012, 3619, on cotton 4059, 5126 on Lablab purpureus 426 on mustard 5659 on sunflower 6557 Hellula undalis in, on casbage 5650 Helopeltis antonii in, on cashew 4550 Henosepilachna vigintioctopunctata in natural enemies of 3017 on potato 6538 Heterocera in 2756 Holotrichia consanguinea in 2281, 3161

I

oject maca
dia contd.
Hydrellia spp. in
natural enemies of 4510
on rice 890, 3941, 3946
H. philippina in, on rice 3954, 5034,
6396
Icerya spp. in, natural enemies of 703
Ichneumonidae in 6015
Idioscopus clypealis in, on mango 4010
I. nigroclypeatus in, on mango 4010
I. shillongensis in, natural enemies of 1887
Indarbela quadrinotata in
on Citrus 2420
on guava 2420
insect pests in 815, 2350, 4146
natural enemies of 6310
Isoptera in 846, 1896
on barley 1393
Kerria mysorensis in, on Shorea 1359
Ktenostreptus spp. in, on Vigna 2010
Laodelphax striatella in, on rice 3920
Leptocorisa acuta in
on nutmeg 1366
on rice 6381
Leucinodes orbonalis in, on eggplant
1538, 4052, 5705
Lipaphis erysimi in
natural enemies of 5469 on Brassica campestris 415
on Brassica juncea 415, 2475
on Eruca sativa 3542
on rape 1999, 2468
Litchi chinensis in, insect pests of 2449
Luperomorpha bombayensis in, on
eggplant 3032
Lymantria dispar in, natural enemies of 4107
L. obfuscata in, natural enemies of 4107
Macrosiphum rosae in, natural enemies of
2820
Madurasia obscurella in, on Vigna 453
Maruca testulalis in, on Cajanus cajan
6525
Megalocypha spp. in, on eggplant 2031 Melanagromyza obtusa in, on Cajanus
cajan 6525
Melanaphis sacchari in
natural enemies of 290
on sugar-cane 290
Melanaspis glomerata in, on sugar-cane 4498, 6345
Melanitis leda in
natural enemies of 2907
on rice 3962
Meloidae in 6122
on crop plants 2313
Mericserica oberthuri in, on coffee 6580 Micronecta scutellaris in 1358
Microtermes obesi in, on wheat 869
Mimegralla coeruleifrons in, on turmeric
5509
mite control in 2116
mulberry in, insect pests of 378 Mylabris phalerata in, on Hibiscus 5351
M. pustulata in, on Ipomoea 5351
Myllocerus curvicornis in, on coconut
360
M. undecimpustulatus in, on cotton
6034, 6565
Mythimna separata in on hemp 2551
on rice 3950, 5558, 6377
on wheat 5024
M. unipuncta in, on sorghum 2915
Myzus persicae in 5497
natural enemies of 6574
on Capsicum 5118 on Eruca sativa 3542
on potato 2494
Nemapogoninae in 6026
Neobetulaphis chaetosiphon in
on Alnus 5210
on Betula 5210 Neomaskellia bergii in, natural enemies of
2351, 2352
Neorthacris simulans in, on mustard
5659
Nephantis serinopa in

on coconut 5052

dia contd.
Nephopterix eugraphella in, natural enemies of 1478
Nephotettix spp. in, on rice 3925, 3948, 5554
N. nigropictus in
natural enemies of 886, 887, 2903 on rice 3405, 5031
N. virescens in natural enemies of 2903
on rice 1406, 3405, 3915, 5031
Nesidiocoris tenuis in, on tobacco 1555, 6573
Nezara viridula in, on mustard 5659 Nilaparvata lugens in
natural enemies of 327, 886, 887,
natural enemies of 327, 886, 887, 1401, 1885, 3939, 3971, 4507, 6397 on rice 335, 338, 339, 341, 342, 343, 345, 888, 899, 2381, 2390, 3393, 3943, 3948, 3963, 4508, 4514, 5554, 6383, 6393, 6402, 6419, 6402, 6419, 6402, 6419
345, 888, 899, 2381, 2390, 3393,
3943, 3948, 3963, 4508, 4514, 5554, 6383, 6393, 6399, 6402, 6419
Nipaecoccus filamentosus in, on
pomegranate 4009
Nisaga simplex in, on rice 2378, 6418 Nupserha nitidior in, on soyabean 6516
Nymphula depunctalis in 2254
on rice 914, 3393 N. foedalis in 2254
N. responsalis in, on Azolla 858 Oberea brevis in 2484
on sovahean 5106
Ochropleura herculea in, on maize 3377 Odontotermes obesus in, fungi in 5485 Oides scutellata in, on grapevine 945
Oides scutellata in, on grapevine 945
okra in, pest control on 414 Oligonychus spp. in, on rice 3898
O. indicus in, natural enemies of 3975
O. mangiferus in 935 Oligotrophus mangiferae in, natural
enemies of 2174
Orseolia oryzae in 3957 natural enemies of 328
on rice 1399, 2379, 3381, 3912, 3922, 3947, 3955, 3974, 5036, 6375, 6401,
6420
Oryzaephilus surinamensis in 6640 Panonychus citri in, on Carica papaya
410 Papilio demoleus in 1287
Pectinophora gossypiella in in cottonseed 3037
on cotton 1547, 1548, 1552, 2039,
2543, 4068, 4072, 5126, 6560, 6561, 6562, 6564
Pelopidas mathias in natural enemies of 2905
on rice 5550
Pempherulus affinis in, on cotton 2537 Pemphiginae in 1834
Pennisetum americanum in
arthropod pests of 5544, 6353 insect pests of 317, 6352 Pentatomidae in 798
Pentatomidae in 798 Pericallia ricini in, natural enemies of
2615
Perissopneumon tectonae in, on guava 1997
pest control in 4142 Phycita spp. in, on Achras zapota 1464
P. infusella in, on cotton 2039
Phyllocoptes salmaliae in, on Bombax 3726
Phytoseiidae in 1
Pieris brassicae in 1287 Planococcus spp. in
natural enemies of 6582
on Parthenium hysterophorus 2852 plant protection in 624
Plocaederus ferrugineus in, on cashew 4550
Plusia signata in, natural enemies of
3893 Plutella xylostella in, natural enemies of
4023 pod borers in, on <i>Cajanus cajan</i> 6524
pod borers in, on Cajanus cajan 6524 Poekilocerus pictus in 4425 on Calotropis 1324, 4958
Polyphagotarsonemus latus in, on jute
1051, 3559, 6571 potato in, insect pests of 3019
predatory mites in 1361
Pseudonapomyza gujaratica in on maize 6372

```
India contd.
   Pseudonapomyza gujaratica in contd.
on sorghum 6372
   Pterochloroides persicae in, on peach
       398
   Pteromalidae in 702
   Pyrilla perpusilla in
     natural enemies of 4447
      on sugar-cane 3879, 5515
   Rhaphipodus spp. in, on Erythrina 284
  Rhinyptia laeviceps in, on Pennisetum
americanum 5263
Rhopalocera in 2757
   Rhopalosiphum spp. in, on cassava 6542
   Rhynchophorus ferrugineus in, on coconut
       1435
   Rhyzopertha dominica in 6640
  rice in
      insect pests of 900, 2900, 3919, 5553 pest control on 320, 2487, 5567
   Schistocerca gregaria in 1873, 5917
      natural enemies of 2318
   Sciothrips cardamomi in, on Elettaria
       cardamomum 6343
  Scirpophaga incertulas in natural enemies of 906, 2905, 3910,
      5549, 6395
on rice 335, 1405, 1407, 2377, 2379, 3404, 3930, 4515, 5035, 5565
   Scirtothrips dorsalis in
      on Capsicum 6553, 6554
on cashew 1969
   Sesamia inferens in
     natural enemies of 2905, 2907
on rice 3930, 4515
   Sipha maydis in, natural enemies of 2765
   Sitobion rosaeiformis in, on rose 5137
  Sitona spp. in, on Trifolium 2930
S. callosus in 1763
Sitophilus oryzae in 6640
                                     5816
   S. zeamais in, on maize
  Sitotroga cerealella in in dried red peppers on maize 5816 on rice 5816
  Sogatella furcifera in natural enemies of 887, 3924 on rice 343, 345, 898, 3921, 3943
   sorghum in
      arthropod pests of 6353
      insect pests of 6352
   soyabean in, pest control on 2487
   Spilostethus pandurus in, on sesame
       3034
   Spodoptera exigua in, on potato 3020
   S. litura in
      natural enemies of 1638, 2618, 6574
     on spice plants 3874
on tobacco 3050
  Sthenias madurae in, on Moghania 2576
Stomopteryx subsecivella in
natural enemies of 5677
     on groundnut 6526
on Trifolium 1427
  stored areca nuts in, arthropod pests of
       3677
  stored products in, insect pests of 2091,
   sugar-cane in, insect pests of 4501
   Sundapteryx biguttula in, on castor
  Sylepta derogata in, on cotton 2538
Taeniothrips spp. in, on apple 5070
Tamarindus indica in, insect pests of
       4493
   tea in
  arthropod pests of 4084
pest control on 1056
Teleonemia scrupulosa in, on Lantana
camara 852, 2853
Tenebrionidae in 5807
  Tenebrionidae in 5807
Tenuipalpidae in 4295
Tetraleurodes flexuosus in, on
   Cymbopogon 1942
Tetranychidae in 267, 1361, 4295
   Tetranychus ludeni in, natural enemies of
       994
  Thrips spp. in 4199 T. tabaci in
  on cotton 3038, 5127
on onion 5697
Thysanoplusia orichalcea in, on Brassica
juncea 2475
```

```
Thysanoptera in, natural enemies of
             5468
      Toxoptera spp. in, on Lantana camara
             2853
      Tribolium castaneum in 6640 in dried red peppers 4655
      T. confusum in, in dried red peppers
            4655
      Tryporyza nivella in, natural enemies of 6308
      Tuckerella kumaonensis in, on Pinus
            4634
      Tyroborus lini in, in Cicer arietinum seeds
             4116
      Uroleucon compositae in
          natural enemies of 4056
on safflower 2508
      Urostylis punctigera in, natural enemies of
       Vigna radiata in, insect pests of 434, 440
      Virachola isocrates in, on pomegranate
             5643
      Xenocatantops humilis in, on tea 3564
Zabrotes subfasciatus in 3680
      Zygina maculifrons in, on rice 336
      Agrotis ipsilon in, natural enemies of 3379
      arthropod pests in 2850 beneficial insects in 2850
    beneficial insects in 2850
Cerambycidae in, in woodland 3302
Diabrotica spp. in, on maize 5540
Elateridae in, in woodland 3302
Empoasca fabae in
on lucerne 5580
on soyabean 6197
Epilachna varivestis in, on soyabean 5673, 6189, 6192, 6194
Hypera postica in, on lucerne 5580
Magicicada spp. in 2244
on apple 3470
Melanoplus femurrubrum in, on soyabean 5673
Philaenus spumarius in on lucerne 5580
      Philaenus spumarius in, on lucerne 5580
      Phylloxera caryaecaulis in, on Carya
      Plathypena scabra in, on soyabean
                                                                        6197
      Scarabaeidae in, in woodland 3302
      Synanthedon pictipes in, on peach 3484,
            6237
 wood-boring insects in, on Quercus 1105 indica, Casnoidea indica, Colpacampsomeris indica, Diaphania (Margaronia; Palpita) indica, Margaronia (see Diaphania indica) indica, Palpita (see Diaphania indica) indica, Papitala
 indica, Paipita (see Dis
indica, Raoiella
indica, Tegolophus
indicata, Hedylepta
indicola, Heterotermes
 indicus, Anagyrus
indicus, Apelaunothrips (Malacothrips)
indicus, Caliothrips (Hercothrips)
indicus, Carayonocoris
  indicus, Chilo sacchariphagus
  indicus, Conicobruchus
  indicus, Dolycoris
  indicus, Goniozus
  indicus, Hercothrips (see Caliothrips
        indicus)
indicus, Malacoumpaindicus,
indicus, Oligonychus
indicus, Panchaetothrips
indicus, Paragus (see P. tibialis)
indicus, Trioxys
indicus, Trioxys
indiensis, Apanteles
indifferens, Rhagoletis
Indigofera tentoria, Bruchidius indigoferae
on, in Punjab 2665
  indicus, Malacothrips (see Apelaunothrips
 on, in Punjab 2665
indigoferae, Bruchidius
indiscretus, Rogas
1H-Indole-3-acetaldehyde, in Lygus
disponsi, metabolism of 737
1H-Indole-3-acetic acid (see IAA)
  1H-Indole-3-acetonitrile, in Lygus disponsi,
        metabolism of 737
```

1H-Indole-3-butanoic acid (see IBA)1H-Indole-3-ethanamine, in Lygus disponsi, metabolism of 737

1H-Indole-3-ethanamine, N-methyl-Dysdercus fasciatus not responding to 1677

```
1H-Indole-3-ethanamine, N-methyl- contd.
                                                                                   myo-Inositol
    Oxycarenus hyalinipennis not responding
                                                                                       diet component for, Plutella xylostella
                                                                                            809
          to 1677
1H-Indole-3-ethanol, in Lygus disponsi, metabolism of 737
                                                                                       in Heliothis zea diet, inhibiting growth
                                                                                             2486
 1H-Indole-3-methanamine, N,N-dimethyl-, in
                                                                                       Spodoptera exempta feeding responses to
      Lygus disponsi, metabolism of 737
Lygus disponsi, metabolism of 737

1H-Indole-3-propanoic acid, in Lygus disponsi, metabolism of 737

1H-Indole, 3-methylin Aspergillus parasiticus, inhibiting development 1798
in Dorylinae, functions of 1798
in Escherichia coli, inhibiting development 1798
                                                                                   chiro-Inositol, 3-O-methyl-
                                                                                       in Heliothis zea diet, inhibiting growth
                                                                                            2486
                                                                                       in soyabean 2486
                                                                                    Inostemma matsutama
                                                                                       sp. nov., description of 5737
                                                                                       illustrations of 5737 in Japan 5737
in Neivamyrmex nigrescens 1798 repellent for, insectivorous snakes 1798 1H-Indol-5-ol, 3-(2-aminoethyl)-
                                                                                       in South Korea 5737
                                                                                       parasitising, Thecodiplosis japonensis, in Kyushu 5737
    in insects, role in muscle pharmacology of
                                                                                    Inostemma seoulis
          4774
                                                                                       illustrations of 5737
    in invertebrates, book 3274
                                                                                       in Japan 5737
    in Locusta migratoria, not affecting
Malpighian tubules 5337
                                                                                       in South Korea 5737
    in Lygus disponsi, metabolism of 737 in Manduca sexta nerve cord
                                                                                       parasitising
                                                                                           Thecodiplosis japonensis
in Japan 5737
in South Korea 5737
        effects on cyclic nucleotides of 751 synthesis of 751
                                                                                       taxonomy of, transferred from Isostasius
Indonesia
    Acrocercops zamenopus in, on coffee 6581
                                                                                             5737
                                                                                   inouyei, Contarinia
inquisitor, Rhagium
inquisitorius, Ischnus
Insect collections
    agricultural entomology in 2155 coconut in, insect pests of 936 Coleoptera in, in Gonystylus bancanus wood 4098 Colydiidae in 6614 Coreidae in 796
                                                                                       abbreviations for institutions containing
                                                                                            2771
                                                                                       Reesa vespulae in, in New Zealand 4654
Thylodrias contractus in 5799
    Lepidiota stigma in, natural enemies of
                                                                                   Insect growth regulators in Galleria mellonella, effects of 2647
          616
     Lepidoptera in, on rice 3415
    Leucopholis rorida in, natural enemies of
                                                                                       in insects
                                                                                           degradation of 3257
                                                                                       effects of 4166
in mouse cell lines, toxicity of 4168
    Nilaparvata lugens in, on rice 330, 1412, 2381, 2391, 3934, 4513
                                                                                       in Pyrrhocoris apterus, delayed effects of 2151
     Ophiomyia phaseoli in, on Vigna radiata
          452
                                                                                       insect control using 4007, 4166, 5962 resistance to, development of 4799 screening of 3231 spin-labelled 5989
     Pantorhytes spp. in 1053
rice in insect pests of 321, 900
pest control on 321, 5567
Tetragnathidae in 4512
Tetranychus piercei in, on Polygala 705
indosacchari, Melanaphis sacchari
Industrial reclamation sites
Acari in, in England 3424
Collembola in, in England 3424
infantilis, Melanoplus
inferens, Sesamia
inferens, Sturmiopsis
inflata, Cedusa
influscatellus, Chilo (Chilotraea)
infuscatellus, Chilotraea (see Chilo
infuscatellus, Acigona
    rice in
                                                                                       substances tested as:
                                                                                           alkylcarbamate derivatives of geranyl
                                                                                                 phenyl ethers 3228
                                                                                           Azadirachta indica extracts 637, 4494 4712
                                                                                          4/12
benzoylphenylureas 1164
1-butanol 4165
farnesoic acid derivatives 2644
juvenile-hormone analogues 1715
maysin 5029
pinitol 2486
                                                                                           precocene analogues 6287
pyridyl ether analogues of JH 4713
Schiff bases from 4-
infusella, Acigona
infusella, Phycita
ingratus, Dicraeus
                                                                                                 (benzyloxy)benzaldehydes and 2,6-difluoroaniline 1166
 inimica, Endria
                                                                                            spice oils 6172
innotata, Scirpophaga (Tryporyza) innotata, Tryporyza (see Scirpophaga
                                                                                           Ŝwertia chirata extracts 3703
                                                                                       Xanthium canadense extracts 2646 synonyms of 2128
      innotata)
innoxius, Dendrothripoides
innumerabilis, Pulvinaria
Inopus rubriceps
                                                                                    Insecticide resistance
                                                                                                                          1143
                                                                                       detecting and measuring of 3709, 3710, 3712, 3713, 3714, 3715 management of 4954
    control of
        cultural 5865, 5887
economics of 5887
insecticides for 5865, 5887
                                                                                       predicting development of 1144
                                                                                    Insecticides
                                                                                       biological testing of 5957
book 2130, 3191, 4152
crop losses not reduced by
determination of 2142
     eggs of
    effects of soil moisture on 5869
effects of temperature on 5869
in New Zealand 2920, 5865, 5870, 5887
in pastures, effects of stocking density on
2920, 5887
                                                                                                                                     630
                                                                                       economic consequences of ban on use of
                                                                                       economic consequences of reduced use of
     on Lolium, effects of selenates on 1947
                                                                                             5954
    preyed on by, Conoderus exsul, in New Zealand 5870
                                                                                       effective life of, pollution and 6695
environmental pollution with, preventing
 inornata, Mecas
                                                                                             of 2143
                                                                                       evaluating of 2275, 3224
 inornata, Saperda
 inornatus, Athous (see Hemicrepidius
                                                                                       for plant protection, review 5436 formulations of
      inornatus)
inornatus, Hemicrepidius (Athous)
Inosine, in Isoptera 4223
i-Inositol (see myo-Inositol)
meso-Inositol (see myo-Inositol)
                                                                                           relationship of acidity and activity of 646, 647
                                                                                           technical specifications for 3217
to prevent alkaline hydrolysis 2134
```

nsecticides contd.	Insects contd.
gas chromatography of, bibliography	cuticle in
2129	hardening and coloration of, review
in agricultural soils, not affecting	5334
arthropod fauna 2758	hydrocarbons in, review 6064
in Apis mellifera, toxicity of 1710	cuticular chemosensilla in, review
in forests, effects on birds of 3179	cuticular protuberances in 4212
in man, toxicity of 3180	development in, hormonal regulation
metabolites of, determination of 1138	5339
neurotoxicology of, conference 1235	diapause in, inheritance of photoper
of vegetable origin, bibliography 5973,	response to 74
5974, 5975	diseases of 2113
on leaf surfaces, model of disappearance	distribution patterns of 140
of 5269	egg-hatch in, dynamic simulation of
on plant surfaces, determination of 1692	1830
organophosphate, physical chemical	feces of, nitrogen in, determination
properties and environmental and	1814
biological behaviour of 1137	genitalia of, preserving in vials of
protection of birds from 3178	heartbeat in, regulation of 4244
sales of, in Finland 6701	hovering flight in 781 humoral immunity in, review 3157
screening of 3218	identifying of, techniques for 1173
side-effects of 3176, 3182	in North America, book 6005
substances tested as:	isopentenoid dependence of 3229
Acorus calamus extracts 859	jumping of, effects of air resistance
A. calamus rhizome extracts 2138	1784
alkoxycyclopropanecarboxylates 5261	lipids in, digestion and absorption o
alkylammonium compounds 6662	review 3742
O-aryl O-alkyl S-alkyl	metabolism in, hormonal regulation
phosphorothioates 652	5339
avermectins 644, 3219	moulting hormones in, titres of 42
Azadirachta indica extracts 3944	moulting physiology in, review 219
benzospiro pyrethroids 657	movement detectors for 176
citrus oils 3797	muscle fibres in, review 2190
cottonseed oil extracts 663	muscle pharmacology in, review 4
cyclic phosphoramidothionates 653	neural development in, review 219 neuropeptides in, isolating of, review
Cyperus scariosus extracts 2132	5314
Dalbergia sissoo extracts 2133, 3708	neurophysiological techniques with,
Datura stramonium extracts 859	4870
DDT-pyrethroids 659	nitrogen in, determination of 1814
dialkyl 2-bromo-1-(2,4-	ouabain in, sensitivity to, review 74
dichlorophenyl)ethenyl phosphates	parasites of, factors affecting develop
5972	of, review 5442
3,4-diphenyl-1-phenylcarbamoyl-2-	paternal care in, evolution of 6102
pyrazolines 639	pathogens of, diagnostic manual 4
O-(1,5-disubstituted-6-oxo-1H-pyridazin-	pesticides in
4-yl) phosphorothioates 1139	metabolism of 3198, 3199
Eclipta erecta extracts 3944, 5510	role of oxidases in metabolism of
fatty acid methyl esters 5266	pheromonal communication in 665
fungal extracts 5234 garlic extracts 859	review 1722 pheromones in
garlic extracts 859 indanyl chrysanthemates 1145, 1146	optical activity of 1723
Lycopersicon hirsutum extracts 4048	receptors for 1724
Momordica charantia seed oil 1368	population dynamics of, role of disp
Nerium odorum extracts 5511	and migration in 1272
nitromethylene heterocycles 660	population structure in, use of genet
nitrophenyl carbamates 661	studying 4812
Ocimum sanctum extracts 859	production and respiration in 116
organophosphates 651	radiation techniques with 63
parthenin 3878	reproductive competition in, book
phenothrin analogues 658	sequestration of plant chemicals by,
phenyl methylcarbamates 1151	review 5443
1-phenylcarbamoyl-2-pyrazolines 2627	sexual selection in, book 2748 small isometric viruses in, review
picrotoxinin analogues 1142 plant extracts 1675, 3716	social
	book 5451
plant oils 6173 2-tridecanone 5115	caste and ecology in, book 2293
vegetable oils 6658	spermatogenesis in, review 5440
synonyms of 2128	surveying of 634
testing of, in USSR 5255	thermal-hysteresis factors in 2684
toxicodynamics of 4265	tissue cultures from, review 5433
use of	UV communication in, review 376
in Australia 623	vitellogenesis in, review 54
in Central America 4948	vitellogenins in, review 54, 2190
in Japan 6703, 6704	walking in, apparatus for investigati
in New South Wales 636, 5960	water balance in, review 3283
in USSR 2123, 2135 in West Germany 2131, 3181, 3182	wing-beat frequency of, measuring of
water pollution by 6726	1846
with fertilizers 6694	Insects as food 3781
Insects	insertum, Rhopalosiphum
activity in, monitoring of 172	insidiosus, Orius
aggregation in, studying of 1312	insidiosus, Trechnites
aggregation indices for 3764	insignis, Culicoides
aquatic, in North America, book 162	insignita, Tomaspis
behaviour-modifying chemicals in,	insignitella, Lithocolletis (see Phyllone
enantiomeric composition of 1727	insignitellus)
body temperature in, measuring of 2727	insignitellus, Phyllonorycter (Lithocol
chemoreceptors in 6038	insiticiana, Ecdytolopha
colonisation and establishment by,	insolita, Homalodisca instigator, Coccygomimus (see Pimpla
genetics of 4799	mondagon, coerlenming (ger i mibia

common names of, in USSR 691

```
instigator, Pimpla (Coccygomimus)
 insubidus, Cryptocephalus
 insulana, Cylosa
 insulana, Earias
 insularis, Diadegma
 insularis, Diglyphus
 insularis, Holotrichia
 insularis, Oebalus
 insularis, Platypus
insularis, Prionus
Insularis, Priolis
Insularis gloverii
control of, biological 2974
in South Africa 2974
on Citrus, in South Africa 2974
 integer, Gryllus
 integerrima, Datana
 Integerrimine, in Senecio jacobaea, uptake by Arctiidae of 5450
 integra, Formica
Integrated control
development of
                                          5932
     future of 630
     of arthropods
          Acyrthosiphon kondoi, on lucerne 5881
          Castnia licus, on sugar-cane 1916 cotton bollworms 4885
          Cydia pomonella, on apple 5069
Eupoecilia ambiguella, on grapevine
                  369
           Hypera postica, on lucerne 1955
Lobesia botrana, on grapevine 369
Mahanarva fimbriolata, on sugar-cane
                  1916
           M. posticata, on sugar-cane 1916
          M. posticata, on sugar-cane 1916
Nephantis serinopa, on coconut 5052
Nilaparvata lugens, on rice 1412
Panonychus ulmi 1760
pests of apple 209, 958, 1450, 1455, 1977, 2953, 3481, 5605
pests of Citrus 2452, 2974, 4006, 4007, 5949
          5949
pests of coffee 500
pests of cotton 3046, 4950, 4951,
4952, 5125, 5714
pests of glasshouse crops 2654, 5925
pests of grain crops 5526, 6355
pests of grapevine 2429
pests of pastures 350
pests of peach 3487
pests of pear 209, 1450
pests of rice 319, 320, 321, 322, 323,
324, 325, 4518, 5567
pests of stored products 1741, 3627,
3631
                  3631
                review 3630
           pests of sugar-beet 6736
           pests of tea 1056
          pests of vegetable crops 1668
pests of wheat 6736
Resseliella theobaldi, on raspberry 940
          Spodoptera littoralis, on sugar-beet 2489
          Tetranychus urticae, on rose 508, 5735
book 631
          book 631
in Australia 5943
in New Zealand 4143
in South Africa 695
in West Germany 2162
IOBC report on 3825
pesticide use in 4949
          review 3172
      use of sex pheromones in 1738 of plants, in Queensland 5933
 integriceps, Eurygaster
interbracta, Dasineura
 Intercropping, insect pests as affected by
        2488
intermedia, Aulacophora (see A. lewisii)
intermedia, Brachymeria
intermedius, Diglyphus
intermedius, Dysdercus
intermedius, Euoniticellus
intermixta, Thysanoplusia
International Plant Protection Convention
        5283
internodii, Trionymus
interoceanica, Amphipoea
interpunctella, Plodia
 interruptor, Temelucha
interstinctus, Elasmostethus
interstitialis, Casnoidea
```

of, review

egulation of

hotoperiodic

ination of

als of 4320 4244

3229 stance on

rotion of.

gulation of

of 4259 2190 ew 90

2190 f, review es with, book 1814 view 745

development 6102 nual 4139

lism of 3197 in 665

of dispersal

of genetics in

116 book 2748

2190 estigating

suring of

Phyllonorycter Lithocolletis)

instigator)

interstitialis, Scyphophorus

3765

748 eview 3160

iew 4774

5431

intricata, Antestiopsis

```
inversa, Glypta
                                                                                              in El Salvador 5167
 Invertase (see Fructofuranosidase, β-)
                                                                                              on Pinus, in El Salvador 5167
 Invertebrates, neuropharmacology of, book
                                                                                          Ips calligraphus
                                                                                              acoustic communication in 548
       3274
 invicta, Solenopsis
                                                                                              Dendroctonus immune sera not reacting
 invirae, Opsiphanes
                                                                                                    with antigens of 3864
 Iodofenphos (O-(2,5-dichloro-4-iodophenyl)
                                                                                              on Pinus elliottii, tunnelling by 1087
                                                                                         parasites of 5151

Ips cembrae, aggregation pheromone in, regulation of production of 4238
       O,O-dimethyl phosphorothioate)
    against
         Delia brassicae, on radish 5097
                                                                                          Ips concinnus
         pests of maize grain 3661
pests of stored grain 2603
                                                                                              acoustic communication in 548 in USA 548
         Rhyzopertha dominica, in stored grain
                                                                                              on Picea sitchensis, in Oregon 548
               3130
                                                                                          Ips grandicollis
         Sitophilus granarius, in stored grain 3130
                                                                                              Dendroctonus immune sera not reacting
                                                                                              with antigens of 3864
in USA 5151
         S. oryzae
            in stored grain 3130 in wheat grain 1612
                                                                                              on Pinus taeda, in Georgia (USA) 5
parasites of, in Georgia (USA) 5151
         S. zeamais, in maize grain 5813
                                                                                          Ips latidens
         Sitotroga cerealella, in maize grain
                                                                                             attractants for
in USA 1571
                                                                                                                         1571
               5813
         Tribolium castaneum
                                                                                          Ips paraconfusus
         in stored grain 3130
in wheat grain 2094
T. confusum 4398, 5824
                                                                                              acoustic communication in 548
                                                                                             aggregation in
inhibited by Dendroctonus brevicomis
infested logs 5327
inhibited by I. pini 555
aggregation pheromone in
receptors for 1728
synthesis of 2199
         Trogoderma granarium, in wheat grain 1612
    in sacking, persistence of 5824
in stored grain, uptake from treated
surfaces of 2093
in wheat grain, persistence of 2094
in wheat products, residues of 4119
synergists for, piperonyl butoxide as
4398
                                                                                              control of, aggregation disruption for
                                                                                              in USA 555, 2594 ipsdienol in, biosynthesis of 5775 ipsenol in, biosynthesis of 5775
     with dichlorvos, against, Tribolium
confusum 4398
with dioxacarb, against, Tribolium
confusum 4398
                                                                                              myrcene in, conversion to pheromones of
                                                                                                   5775
                                                                                              on Pinus ponderosa, in California 555 on Pinus radiata, distribution pattern of
contusum 4398
with malathion, against, Tribolium
confusum 4398
iolas, Platygaster (Prosactogaster)
iolas, Prosactogaster (see Platygaster iolas)
α-Ionone (see 3-Buten-2-one, 4-(2,6,6-
trimethyl-1-cyclohexen-1-yl)-)
β-Ionone (see 3-Buten-2-one, 4-(2,6,6-
trimethyl-1-cyclohexen-1-yl)-)
                                                                                                   2594
                                                                                              parasites of, distribution pattern of 2594 predators of, distribution pattern of 2594
                                                                                          Ips pini
                                                                                              aggregation pheromone in, receptors for 1728
                                                                                              control of, aggregation disruption for
Carabidae in, in maize fields 1394
Diabrotica longicornis in, on maize 1395
Diprion similis in, on Pinus 5193
mites in, on apple 954
Neoconocephalus nebrascensis in 2795
Ostrinia nubilalis in 1747
on maize 878
                                                                                             1571
in USA 555, 1571
on Pinus ponderosa, in Idaho 1571
parasites of 5151
                                                                      1395
                                                                                         Ips plastographus
acoustic communication in 548
in USA 548
on Picea sitchensis, in Oregon 548
    on maize 878

Plathypena scabra in, on soyabean 4035

soyabean fields in, predatory arthropods in 6196
                                                                                         Ips sexdentatus
in Finland 4101, 4102
in France 5186
in Hungary 4109
                                                                                             in pine wood, in Finland 4102
in spruce wood, in Finland 4102
on Pinus nigra, in Hungary 4109
on Pinus sylvestris, Diptera in tunnels of 5186
 Iphirhina, taxonomy of 16
Ipidae, on Pinus, in Sweden 5747
 Ipideurytoma spessivtsevi in USSR 5399
parasitising, Xyloterus lineatus, in
Lithuania 5399

IPO-62 (see Bromfenvinfos)

IPO-63 (see Phosphoric acid, 2-bromo-1-(2,4-dichlorophenyl)ethenyl dimethyl
                                                                                         Ips subelongatus, rearing of, techniques for 1315
                                                                                         Ips tridens engelmanni
in USA (Alaska) 5738
on Picea glauca, in Alaska 5738
Ips tridens tridens
       ester)
 ipomeae, Dendrothripoides (see D. innoxius)
                                                                                              acoustic communication in 548 in USA 548
 Ipomoea, Mylabris pustulata on, in Punjab
       5351
                                                                                              on Picea sitchensis, in Oregon 548
 Ipomoea batatas (see Sweet potato)
ippeus, Apanteles
Ips
                                                                                         Ips typographus
attractants for 6589
                                                                                              Actilus thuringiensis in, in Georgia (USSR) 2616
behavioural responses to food-plant stimuli in 3805
    control of 5181
     on conifers, in El Salvador 5172
    on Pinus
in El Salvador 5174
in USA 5181
on Pinus elliottii, effects of herbicides on
                                                                                              chemoacoustically-induced behaviour in
                                                                                                   4620
           5744
                                                                                              control of
                                                                                            control of
biological 2616
insecticides for 2563, 6602
trap trees for 2563
traps for 6589
flight activity in 2062
in Czechoslovakia 4620
in Finland 4101, 4102
in France 5186
in Norway 2563, 6589
 Ips acuminatus, in Finland 4101
Ips amitinus, EPPO data sheet on 4703
    attractants for 539, 3590

Dendroctonus immune sera not reacting
    with antigens of 3864
in USA 539, 3590
on Pinus taeda, in Texas 3590
parasites of 5151
```

Ips bonanseai

```
Ips typographus contd.
in Sweden 6589
in USSR 2616, 5395, 5397
    in West Germany 2062
    in pine wood, in Finland 4102
    in spruce wood, in Finland 4102
    on Picea abies
       Diptera in tunnels of 5186
       in Czechoslovakia 4620
    in Norway 2563
parasites of, in Lithuania 5397
    parasitised by, Chalcidoidea, in Lithuania
         5395
    population dynamics of 2062
Ipsdienol (see 2,7-Octadien-4-ol, 2-methyl-6-
     methylene-)
Ipsenol (see 7-Octen-4-ol, 2-methyl-6-
     methylene-)
ipsilon, Agrotis (Scotia)
ipsilon, Scotia (see Agrotis ipsilon)
iracundus, Rhinocoris
    Aelia spp. in, on wheat 3365
    Carpocoris spp. in, on wheat 3365
Eurygaster spp. in, on wheat 3363
    E. integriceps in
on barley 3365
on wheat 3364, 3365
   Oryzaephilus surinamensis in, in rice grain 228
    Pentodon idiota in, natural enemies of
    Sesamia cretica in, natural enemies of
         1380
    S. nonagrioides in, natural enemies of 1380
 iranicola, Edwardsiana
    Acanthococcus aceris in, on apple 4335
Acrididae in, natural enemies of 4453
    Chaetorellia carthami in, on safflower
    Earias insulana in, on cotton 4384
   Earias insulana in, on cotton 4384
Euproctis melania in
natural enemies of 516
on Quercus 516
lucerne fields in
parasitic insects in 3451
predatory insects in 3451
Stephanitis pyri in, on pear 4343
Tetranychus turkestani in, on cotton
4384
Irenimus compressus
control of, insecticides for 6720
in New Zealand 6720
on black currant, in New Zealand 6720
iridescens, Macrocentrus
Iridescent viruses
       Armadillidium vulgare, replication of
        Chilo suppressalis, proteins in 2619
       Heteronychus arator 4137 insect cell lines, cell fusion caused by
             5232
       monkey cell lines, cell fusion caused by 5232
       Porcellio scaber, replication of 3151
Thereuonema hilgendorfi, replication of
3151
purifying of 2619
Iridodial (see Cyclopentaneacetaldehyde, 2-
formyl-α,3-dimethyl-)
Iridomyrmex, food exchange in, studying of
      1337
Iridomyrmex biconvexus
in Australia 2587
    in Eucalyptus forests, in Victoria 2587 seed harvesting by 2587
    seed harvesting by
Iridomyrmex humilis
   attractants for 2803
control of 692
insecticides for 31
                                  3118
in Australia 692
in food factories 3118
trail pheromone in, components of 2803
Iridomyrmex pruinosus, alarm pheromone
in, optical activity of 1723
```

Iridoviridae

cell lines, inhibiting synthesis of macromolecules 6683

40,000 2114011		100)
ridoviridae contd.	Isazophos contd.	Isoprocarb contd.
in contd. Galleria mellonella, hemocyte	against contd. Ctenicera pruinina, on potato 3536	against Cnaphalocrocis medinalis, on rice 335
destruction by 3163	Cyclocephala parallela, on Cynodon	Distantiella theobroma, on cacao 4078
ris, Rhizoecus palestineae on 3057 ris hollandica	3445	Nilaparvata lugens 6719
iris mild mosaic virus in, in Netherlands	Delia brassicae, on brussels sprouts 216	on rice 335, 3395, 3951, 3958, 3959 Sahlbergella singularis, on cacao 4078
3567	Diabrotica spp. 6253	Scirpophaga incertulas, on rice 335,
iris mild yellow mosaic virus in, in Netherlands 3567	Limonius canus, on potato 3536 Spodoptera littoralis 223, 4381	5035 Sogatella furcifera 6719
iris severe mosaic virus in, in Netherlands	resistance to, in, Spodoptera littoralis	on rice 3931
3567 Macrosiphum euphorbiae on, in	4382	resistance to, in
Netherlands 3567	Ischiodon scutellaris in India 290	Nilaparvata lugens in Philippines 3398
ris mild mosaic virus	in Taiwan 3316	in Taiwan 3906, 5568
Iris hollandica, in Netherlands 3567	preying on	Isopropanol (see 2-Propanol)
Macrosiphum euphorbiae, transmission of 3567	Hysteroneura setariae, in Taiwan 3316 Melanaphis sacchari, in Uttar Pradesh	Isoprothiolane (see Propanedioic acid, 1,3-dithiolan-2-ylidene-, bis(1-methylethyl)
ris mild yellow mosaic virus	290	ester)
In Laboration in Northeadau de 2507	Ischnus inquisitorius biology of 3071	Isoptera altitudinal distribution of 5000
Iris hollandica, in Netherlands 3567 Macrosiphum euphorbiae, transmission	descriptions of 3071	biology of 2156, 3242
of 3567	in UK 3071	caste and ecology of, book 2293
ris severe mosaic virus in	parasitising Pandemis cerasana, in England 3071	caste differentiation in 5451 control of
Iris hollandica, in Netherlands 3567	Tortrix viridana, in England 3071	attractants for 3902
Macrosiphum euphorbiae, transmission of 3567	isedakii, Adelges ishiharai, Aphrastasia pectinatae (see	book 4463 insecticides for 1393, 2780, 5626, 6656
rish Republic	Adelges pectinatae)	plant extracts for 637
Acari in, in drained bogs 3425	ismene, Melanitis leda	use of pheromones in 6057
Blaps lethifera in, in Viking remains 3779	Isobenzan (1,3,4,5,6,7,8,8-octachloro- 1,3,3a,4,7,7a-hexahydro-4,7-	defensive secretions in, chemical ecology of 1734
Collembola in, in grassland 3437	methanoisobenzofuran)	division of labour in 5451
Delia brassicae in natural enemies of 5928	against, Carpomyia vesuviana 6477 Isocitric acid, trisodium salt, Yponomeuta	in Bihar 1896 in Kuwait 1837
on cabbage 6506	feeding responses to 4775	in Maharashtra 846
Eucoilidae in 4736 Formica lugubris in, in coniferous	Isocoma wrightii, antifeedant activity of extracts of 5996	in Nigeria 5486 in Orissa 1896
woodland 5146	isocrates, Virachola	in Soviet Central Asia 2755
Geotrupes stercorarius in, in cattle dung 3428	Isodiospyrin (see [1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dihydroxy-2,3'-	in tropical southern Asia, book 4463 in USSR 118
Heterocera in 163	dimethyl-)	book 1897
Ichneumonidae in 4211 stored grain in	Isodrin $((1\alpha,4\alpha,4a\beta,5\beta,8\beta,8a\beta)-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,2,10-hexachloro-1,4,4a,5,8,8a-1,4,8a-1,4a-1,4a-1,4a-1,4a-1,4a-1,4a-1,4a-1,4$	in Zimbabwe 4720 in forest soils, effects on rainwater
mite pests of 5926	hexahydro-1,4:5,8-dimethanonaphthalene)	infiltration of 5003
predatory mites in 5926	against, Eublemma amabilis 1350	in pine wood, in El Salvador 5167 in soil
Tetranychus urticae in, on glasshouse crops 5925	Isofenchlorphos (see Phosphorothioic acid, S-(4-chlorophenyl) O,O-dimethyl ester)	biology of 2780
Trialeurodes vaporariorum in, on	Isofenphos (1-methylethyl 2-[[ethoxy[(1-	extracting of 4872
glasshouse crops 5925 rius, Pseudobunaea	methylethyl)amino]phosphinothioyl]oxy]- benzoate)	role in erosion of 2790 in wood, resistance to 845
ron	against 2006	land use as affecting 130, 134
in Delia antiqua, and in diet 2226 ion (Fe ²⁺), in Laodelphax striatella diet,	Capnodis tenebrionis, on cherry 3996 Delia antiqua, on onion 1490	on barley, in Haryana 1393 on <i>Cajanus cajan,</i> in Nigeria 1016
requirement for 3270	D. brassicae 1490	on cassava 1023
rpex flavus, in, rubber wood, responses of termites to 5226	on brussels sprouts 216, 3809 on radish 5097	on Citrus, in India 5626 on forest trees 2155
regularis, Enoclerus	D. floralis 1490	on groundnut, damage caused by 3145
rrigation of Brassica juncea, effects on Athalia	D. platura, on Phaseolus vulgaris 6230 Diabrotica spp. 6253	on onion, in Zimbabwe 6547 on rice, in Philippines 3902
lugens of 2475	Psila rosae, on carrot 217	on sugar-cane
of clover fields, effects on Spodoptera littoralis of 5581	in radish, residues of 5097 1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-	in Bangladesh 4495 in Punjab 4501
of cotton fields, effects on Pectinophora	tetrahydro-2-[(trichloromethyl)thio]- (see	on wheat, in Haryana 6656
gossypiella of 483 of maize fields	Captan) L-Isoleucine	preyed on by Carebara spp. 5361
effects on Anaphothrips obscurus of	in Sitophilus oryzae diet, requirement for	' Megaponera foetens, in Nigeria 3868
315 effects on beneficial insects of 1653	in Spodoptera littoralis hemolymph, not	Odontomachus chelifer, in Paraguay 4969
effects on Tetranychidae of 308	affected by DDT 3818	Syrphidae 2312
of potato fields, effects on Phthorimaea operculella of 3534	Isomalathion (see Butanedioic acid, [[methoxy(methylthio)phosphinyl]thio]-,	successions in 112 territoriality in 5451
of sugar-cane plantations, insects	diethyl ester)	Isosafrole (see 1,3-Benzodioxole, 5-(1-
damaging equipment for 2355	Isomerase, glucose phosphate	propenyl)-) Isostasius seoulis, taxonomy of, transferred
rrigation, sprinkler, in pear orchards, effects on arthropod pests of 5609	is Dendroctonus brevicomis, population	to Inostemma 5737
rorata, Anticarsia	variation in 5191	Isothiocyanic acid, allyl ester (see 1- Propene, 3-isothiocyanato-)
rrorata, Billaea sabella, Pyrrharctia	in <i>Dendroctonus frontalis</i> , population variation in 5191	Isotima javensis
sadas, Elachertus	Isometopus, taxonomy of 1580	in India 906
saea, Diglyphus sathrine (see Bioresmethrin)	Isoneurothrips, taxonomy of, synonym of Thrips 4199	parasitising, Scirpophaga incertulas, in West Bengal 906
sazophos (O-[5-chloro-1-(1-methylethyl)-	Isopentenoids, dependence of insects on	Isotoma notabilis
1H-1,2,4-triazol-3-yl] O,O-diethyl phosphorothioate)	3229 Isopoda	in UK 3424 in industrial reclamation sites, in England
against	in dune grassland	3424
Agrotis ipsilon 6168 A. segetum 6709	changes in biomass of 3429 role as decomposers of 3430	Isotoma viridis in Irish Republic 3437
Chilo suppressalis, on rice 3901	Isoprenoids, polyprenols, in Artogeia rapae	in grassland, in Irish Republic 3437
Cnaphalocrocis medinalis, on rice	diet, metabolism of 2210 Isoprocarb (2-(1-methylethyl)phenyl	Isotomurus palustris in Irish Republic 3437
3926 Costelytra zealandica, in pastures 5877	methylcarbamate)	in grassland, in Irish Republic 3437

C. okadai in, on Citrus 6483

3072

Ivory Coast contd. Isoxathion (see Phosphorothioic acid, O,O-Italy contd. diethyl O-(5-phenyl-3-isoxazolyl) ester)
3(2H)-Isoxazolone, 2-[(dimethylamino)carbo-Gonioctena quinquepunctata in Recilia mica in contd. on cherry 1985 on oil palm 2937, 6445 nyl]-, against, Myzus persicae 1209 on Sorbus 1985 Selenothrips rubrocinctus in, on cacao Gonipterus scutellatus in, on Eucalyptus 5132 Israel Ivy, poison (see Rhus radicans)
Ixodides, in Norway 4407
Ixodoidea, in USA, book 6006
Ixora, Pseudaonidia trilobitiformis on, in
Florida 5088 agricultural entomology in 2164 Alticinae in 4020 2081, 6587, 6588 Heterocera in 6125 Hoplopteridius lutosus in 3877 Hydrellia spp. in, natural enemies of Anobiidae in 2087 Aphis citricola in, natural enemies 5621 Aspidiotus nerii in, on Nerium oleander 4138 Jacaranda acutifolia, Neoclytus pusillus on, in Brazil 3073 insect fauna of, literature on 2292 Lachnidae in, on conifers 2082 A. paranerii in, on Pittosporum 4204 Bemisia tabaci in, on cotton 6567 biological control in, insects introduced for 3697 in Brazil 3073
jaceana, Urophora
jaceantkovskyi, Bithia
jacksoni, Pterocomma
jacobaeae, Longitarsus
jacobaeae, Tyria
Jacobiasca lybica
control of, insecticides for 3819
in Egypt 3819
on cotton, varietal preferences of 3819
Jacobine, in Senecio jacobaea, uptake by
Arctiidae of 5450
jacobsoni, Varroa Lepidoptera in 1309 Leptocera spp. in, natural enemies of 4138 Caryedon serratus in, on avocado 3489
Caryedon serratus in, on Prosopis 2729
Coccus capparidis in 6012
Earias insulana in, on cotton 4061 Liriomyza trifolii in on Chrysanthemum 1059 on Gerbera 1059 Lobesia botrana in, on grapevine 5590 Luperus spp. in 4103 Mamestra brassicae in, on broccoli 5655 Heliothis armigera in natural enemies of 1037 on cotton 5724
Myzus persicae in, on potato 1020
Phoridae in, natural enemies of 1126
Phytoseiidae in 2761 Myzus persicae in, on peach 4554, 6457 M. varians in, on peach 4554 Operophtera brumata in, on Populus jacobsoni, Varroa Jacoline, in Senecio jacobaea, uptake by Arctiidae of 5450 Jaconine, in Senecio jacobaea, uptake by Arctiidae of 5450 3610 Orgyia trigotephras in, natural enemies of 5288 Planococcus citri in, natural enemies of 3800 Pterochloroides persicae in 5614 Ostrinia nubilalis in, natural enemies of Jacozine, in Senecio jacobaea, uptake by Arctiidae of 5450 Saissetia oleae in 5534 natural enemies of 4560 on Citrus 4560, 4561 Otiorhynchus cribricollis in, on marketgarden crops 992 Jalysus spinosus in USA 4609, 4934 Sciaridae in, natural enemies of 1126 Pandemis cerasana in, on apple 4551 in tobacco plantations, effects of insecticides on 4609, 4934 preying on, Manduca sexta, in Virginia 4934 Scolytidae in 2079 P. heparana in Spodoptera littoralis in 1742, 4698 stored grain in, insect pests of 4128 Thamurgus orientalis in, on Cotoneaster natural enemies of 5617 on peach 5617 insect pests of 6457
pest control on 209, 1450
pesticide use in 5253
Planococcus citri in, on Citrus
Prays citri in, on Citrus 5637
Pseudococcus calcadariae in control 2079 Jamaica Danaus plexippus in 2249 Drosophila pseudoobscura in, spiroplasms in 6668 Toxoptera citricida in, on Citrus 2103 Trionymus internodii in, on pineapple 6012 5636 Issidae, on grasses, effects of plant structure complexity on 4528 isthmia, Mechanitis polymnia italicum, Pterocomma jambolana, Brachymeria Jamun (see Eugenia jambolana) janata, Achaea Pseudococcus calceolariae in, on Citrus 5633 Psylla pyri in, natural enemies of 6457, 6469 Japan italicus, Calliptamus Acyrthosiphon kondoi in, natural enemies of 1426 Pterochloroides persicae in on almond 1972, 5614 Agriotes spp. in, on potato 1022 Aleurotuba jelinekii in, on Viburnum A. pisum in, natural enemies of 1426 Adelgidae in 1559 on apricot 1972 on peach 1972, 5614 Adoxophyes spp. in, on tea 6584 A. orana in 739 Anisodactylus spp. in 3859 Aphis citricola in, on grapevine 941 A. gossypii in, natural enemies of 3492 Pterocomma italicum in, on Salix 5762 Agromyza oryzae in, natural enemies of Rhagoletis cerasi in, on cherry Saissetia oleae in 346 Appendiseta robiniae in, on Robinia 5794 on Citrus 2455 on Nerium oleander on olive 986, 2455 Agrotis fucosa in 4835 Agrous fucosa in 4853
Anomala albopilosa in, on sugar-cane
2860, 2861, 2862, 2863
A. cuprea in 2728
Anthophila spp. in 700
Anthribidae in 4187
Aonidiella taxus in 1591
Aphis citricola in, on Citrus 5082
A gossyni in 2455 apple in arthropod pests of 6457 pest control on 209, 1450 Archips podanus in, on apple 4551 Scaptomyza spp. in, natural enemies of 4138 Scarabaeidae in 4296 Sitona tenuis in 1763 A. rosanus in on apple 4551 on Citrus 5628 Spermophagus sericeus in, natural enemies of 6018 A. gossypii in on Citrus 5082 on cucumber 1 Or Outs Symphyta in, on forest trees 2080 Tetranychus urticae in, on Citrus 4569 Thaumetopoea pityocampa in natural enemies of 3079 on Pinus 3609, 5188 Thylodrias contractus in 5799 Argyrotaenia pulchellana in, on apple 4551 1502 Bemisia citricola in, natural enemies of Aponychus corpuzae in, on bamboo 5018 6024 Callaphis juglandis in, on walnut 5592 Ceratitis capitata in 5377 Chromaphis juglandicola in, on walnut Artogeia japonica in 14 A. melete in 1495 A. napi in 5367 A. rapae in 1495, 5367 on cabbage 4577 1495 Toxoptera aurantii in, natural enemies of 3492 5592 Chrysoesthia sexguttella in, on Trialeurodes vaporariorum in, on strawberry 5585 Chenopodium 848
Cinara cupressi in, on Cupressus 1077
Conomelus dehneli in, natural enemies of Asphondylia sphaera in, on Ligustrum Tyrophagus putrescentiae in, in fungus collections 5012 Atrachya menetriesii in 1254 Xyleborus dispar in, on hazel 6455 Zabrus tenebrioides in, on wheat 23 5512 Bombyx mandarina in, on mulberry Dacus oleae in, on olive 1473, 1475, 1476, 1477 1168 Ithomiidae, in Americas, book 4855, 4856 Bradysia agrestis in on cucumber on lily 1557 Dialeurodes citri in, on Citrus 3490, Ivory Coast 1557 3491 on lily 1557

Bucculatrix pyrivorella in, on pear 3482

Carposina niponensis in 6458

cassava in, arthropod pests of 4592

Cavelerius saccharivorus in, on sugar-cane
292, 4500, 5514

Cecidomyiidae in 2767

Cheimophila spp. in 4640

Chilo suppressalis in, on rice 894, 1400

Cletus punctiger in, on rice 6108

Cnaphalocrocis medinalis in, on rice
1409, 4511, 6382 Coelaenomenodera elaeidis in, on oil palm 1438, 4544 Diprionidae in, on *Pinus* 5741 Dysaphis plantaginea in, on apple 5606 Epilachna chrysomelina in, on *Ecballium* Delphacidae in on coconut 6445 on oil palm 6445 Eldana saccharina in 5307 Eriophyes genistae in, on Sarothamnus 2050 natural enemies of on sugar-cane 693 spartii in, on Spartium 2050 Eupoecilia ambiguella in, on grapevine 3988, 5590 Eriophyes guerreronis in, on coconut 1436 locust control in 5899
Messor gallus in 4434
M. regalis in 4434 Euzophera bigella in, on fruit trees 6459 forest pests in 6592

Formica spp. in 5462

Galeruca rufa in, natural enemies of 847 1409, 4511, 6382 Podagrica decolorata in, on okra 5092 Contarinia inouyei in, natural enemies of Gilletteella coweni in, on Pseudotsuga Recilia mica in

on coconut 6445

apan contd.	Japan contd.	Javesella dubia contd.
Cydia dimorpha in	Rumex obtusifolius in	parasitised by, Elenchus tenuicornis, in
on Chaenomeles speciosa 2947	Gastrophysa atrocyanea for biological	England 2333
on plum 2947	control of 851	reproductive system in, effects of parasite
Dacus cucurbitae in 633, 5375	insect enemies of 850	on 2333
on Diplocyclos palmatus 1501	Scarabaeidae in, on sugar-cane 2859	Javesella pellucida
D. dorsalis in 2931		
	Schizotetranychus celarius in, on bamboo	control of, cultural 3881
Diprion nipponica in 6586	5018	in Egypt 870
Diurnea spp. in 4640	Scirtothrips dorsalis in	in Poland 3036
Dolichovespula saxonica in 99	on grapevine 1446	oat sterile dwarf virus in, transmission of
Dryocosmus kuriphilus in, natural	on tea 5731	3881
enemies of 3572, 5736		
Empoasca spp. in, on Citrus 2972	Sesamia inferens in, on sugar-cane 1385	on sunflower, in Poland 3036
	Sogatella furcifera in 6719	on wheat, in Egypt 870
Eutromula spp. in 700	on rice 2912	wheat striate mosaic virus in, transmissio
Fiorinia spp. in 4085	soyabean in	of 870
Formica japonica in 4429	arthropod pests of 1513	jeffreyi, Dendroctonus
Formicidae in, in anthropogenic	insect pests of 462	
environments 124		jelinekii, Aleurotrachelus (see Aleurotuba
Gastrophysa atrocyanea in 849, 850	Spodoptera depravata in, on grasses	jelinekii)
Hemiptera in, on rice 917	4521	jelinekii, Aleurotuba (Aleurotrachelus;
Henosepilachna pustulosa in, on Cirsium	S. litura in 3237	Frauenfeldiella)
276	stink bugs in, on fruit crops 1433	jelinekii, Frauenfeldiella (see Aleurotuba
	Tachinidae in 2667, 4194	jelinekii)
Homona magnanima in 1222		
Hypera punctata in, on Trifolium 5051	tea pests in, natural enemies of 3056	Jelutong (see Dyera costulata (wood))
Hyphantria cunea in 1601	Tenebrionidae in 4293	JH-I (see 2,6-Nonadienoic acid, 7-ethyl-9-
insecticide residues in, tolerances for	Tetranychus piercei in 705	(3-ethyl-3-methyloxiranyl)-3-methyl-,
6722	T. urticae in	methyl ester)
insecticide use in 6703	natural enemies of 3841	JH-II (see 2,6-Nonadienoic acid, 9-(3-ethyl
Laodelphax striatella in, on rice 2912,	on Trifolium 5921	3-methyloxiranyl)-3,7-dimethyl-, methyl
3920		ester)
	Thecodiplosis japonensis in, natural enemies of 5737	
Lepidoptera in, in orchards 6121		JH-III (see 2,6-Nonadienoic acid, 9-(3,3-
Lipaphis erysimi in 4572, 4828	Thysanoplusia intermixta in 1252	dimethyloxiranyl)-3,7-dimethyl-, methyl
on turnip 1535	Tipula aino in, on rice 1411	ester)
Lissorhoptrus oryzophilus in, on rice	Toxoptera citricida in, on Citrus. 5082	JHA 129 (see Cyclopropanecarboxylic acid
6378	Trialeurodes vaporariorum in 1133	2-(8-ethoxy-4,8-dimethyl-3-nonenyl)-2-
Lymantria dispar in, natural enemies of	natural enemies of 3292, 6552	methyl-, methyl ester)
2569, 4107	on cucumber 424, 5661	JHA 132 (see Cyclopropanecarboxylic acid
Lyonetia prunifoliella in, on apple 2964	Unaspis yanonensis in	2-[6-(3,3-dimethyloxiranyl)-4-methyl-3-
Makivora hagiyai in, on Podocarpus	natural enemies of 1352	hexenyl]-2-methyl-, methyl ester)
5203	on Citrus 1468	JHA 140 (see Cyclopropanecarboxylic acid
Malacosoma neustria in 5596	Vespinae in 78	2-(8-methoxy-4,8-dimethyl-3-nonenyl)-2-
natural enemies of 1296	japonensis, Thecodiplosis	methyl-, methyl ester)
Mamestra brassicae in 1255	japonica, Artogeia	JHA 147 (see Cyclopropanecarboxylic acid
Masakimyia pustulae in, on Euonymus	japonica, Dictyoploca	2-(8-ethoxy-4,8-dimethyl-3-nonenyl)-2-
4794	japonica, Formica	methyl-, 1-methylethyl ester)
midge galls in 2767	japonica, Lymantria dispar	JHA 148 (see Cyclopropanecarboxylic acid
Monema flavescens in, natural enemies of	japonica, Oxya (see O. yezoensis)	2-(8-ethoxy-4,8-dimethyl-3-nonenyl)-2-
1348	japonica, Pieris napi (see Artogeia japonica)	methyl-, ethyl ester)
Moritziella castaneivora in, on Castanea	japonica, Popillia	jheringi, Octostruma
1602	japonica, Propylea	jiangxiensis, Oligonychus
Muscoidea in 4305	japonicum, Trichogramma	Jikradia, gen. nov., description of 6025
Mychiothrips fruticola in, on Miscanthus	japonicus, Adelges	Jikradia olitoria, taxonomy of, transferred
4729	japonicus, Anastatus	from Coelidia 6025
Myzus persicae in 4733	japonicus, Cirrospiloideus (see Stenomesius	Jimson weed (see Datura stramonium)
		Jodfenphos (see Iodofenphos)
on Brassica juncea 1209	japonicus)	Johnsoniini
on turnip 1535	japonicus, Dicladocerus	
Nephotettix cincticeps in, on rice 331,	japonicus, Dinoderus	hosts of 4726
916, 2914, 6379	japonicus, Meteorus (see M. pulchricornis)	taxonomy of 4726
Nilaparvata lugens in 6719	japonicus, Stenomesius (Cirrospiloideus)	Jojoba (see Simondsia californica)
on rice 1403, 2381, 2383, 2385, 2386,	Jasmine, orange (see Murraya paniculata)	Jordan
2912	jasmini, Calacarus	Bemisia tabaci in, on tomato 5703
Noctuidae in 4287	Jasminum	Clinodiplosis oleisuga in
	insect pests of, in USSR 1556	natural enemies of 5641
Operophtera brumata in, on Alnus 5187		on olive 5641
Oulema oryzae in, on rice 332	pest control on 1556	
Pachypappa marsupialis in, on Populus	Jasminum arborescens	Jowar (see Sorghum)
4641	Eothrips coimbatorensis on, in Delhi	juba, Artogeia canidia
Palpifer sexnotatus in	2554	juba, Pieris canidia (see Artogeia canidia
on Amorphophallus konjac 1533	Eurhynchothrips ordinarius on, in Delhi	juba)
on yam 1533	2554	jucunda, Psylla
Panonychus citri in	Jasminum sambac	juglandicola, Chromaphis
natural enemies of 3841	Calacarus jasmini on, in West Bengal	juglandis, Callaphis
on pear 6472	3726	juglandis, Habrobracon (see Bracon hebeto.
	Eothrips coimbatorensis on, in Delhi	Juglans cinerea, Datana integerrima on, in
Papilio protenor in 4282	2554	USA 6223
on Citrus 4562		
P. xuthus in	Eurhynchothrips ordinarius on, in Delhi	Juglans hindsii
natural enemies of 6485, 6486	2554	Aceria vaga on, in California 1968
on Zanthoxylum 277, 4829	Jauravia dorsalis	Eriophyes spermaphaga on, in California
pesticide use in 6704	in India 2821	2656
Phyllonorycter ringoniella in	in coconut plantations, in Karnataka	Juglans nigra, Hyphantria cunea on, in New
natural enemies of 1457	2821	York 6030
on apple 1457	preying on, Sparassus lamarcki, in	Juglone, 7-methyl- (see 1,4-
Phytomyza horticola in, natural enemies	Karnataka 2821	Naphthalenedione, 5-hydroxy-7-methyl-
	Jauravia quadrinotata	juliana, Pammene (see P. fasciana)
of 427 Phytospiides in 3841 3842		
Phytoseiidae in 3841, 3842	in India 1057	julii, Phytoecia nigricornis
Platypleura kaempferi in, on loquat 6478	preying on, Fiorinia theae, in Assam	julis, Tetrastichus
Plutella xylostella in 6107	1057	Julodini, taxonomy of 21
Polistes chinensis in 4415	javanica, Tessaratoma	Juncus conglomeratus, Conomelus dehneli
Polyphagotarsonemus latus in, on potato	javanus, Oxyopes	on, in Italy 5512
3018	javensis, Isotima	juniperata, Thera
Pteronemobius taprobanensis in 4947	javensis, Marietta	juniperi, Aleuropteryx
	Javesella dubia	juniperi, Carulaspis
in lawns 349		juniperi, Caruiaspis juniperi, Cinara
Resseliella odai in, natural enemies of	in Finland 2333	
5737	in UK 2333	juniperina, Pauesia

Kale (Brassica oleracea var. viridis) Kentucky contd. Juninerus Carulaspis juniperi on, in Pennsylvania Beauveria bassiana in, persistence of Caliroa quercuscoccineae in contd. on Quercus 6210 2068 3514 C. minima on, in Pennsylvania 2068 Brevicoryne brassicae on, varietal Carabidae in, in tobacco plantations Cinara juniperi on, in Tadzhikistan 1177 preferences of 1496 Lachnidae on, in Italy 2082 Phyllotreta undulata on, feeding by 4018 Euschistus servus in, natural enemies of Megastigmus bipunctatus on, in Sweden Trichoplusia ni on 2415 in Missouri 3514 in Virginia 4906 2660 E. variolarius in, natural enemies of Pentamerismus erythreus on, in Florida 2415 Frankliniella tritici in, on soyabean Hypera postica in, on lucerne 4540 Manduca sexta in kalimpongensis, Tetraneura kalmii, Lygaeus Kalotermes flavicollis 1511 6613 Thyridopteryx ephemeraeformis on, in Ohio 789 Juniperus virginiana, Phlocosinus dentatus on, in Georgia (USA) 5151 Jute (Corchorus capsularis and C. olitorius) Anomis sabulifera on damage caused by 5131 allometric phenomena in 3869 biology of 1897 in USSR 118, 1897 on Datura 3562 on tobacco 3562 Podisus maculiventris in, natural enemies on trees, in Caucasus 118 2415 damage caused by 5131 in West Bengal 6571 varietal preferences of 5131 Apion corchori on, in West Bengal 1051, Sericothrips variabilis in natural enemies of 6 oviposition in, effects of growth regulators on 721

Kalotermitidae, in Nigeria 5486

Kanaima, taxonomy of 16 on soyabean 1511 6571 agricultural entomology in 2156, 2653, arthropod pests of, weather conditions favouring outbreaks of 3559 Aceria tulipae in, on wheat 5529 Acrididae in 5980 4181 Amyna octo in 4843 A. punctum in 4843 Aphis gossypii in, on squash 1503 favouring outbreaks of 3559
insect pests of
in Assam 4142
in Bangladesh 4495
Noctuidae on, in West Bengal 1051
okra mosaic virus in, beetle transmission
of 5092
Polyphagotarsonemus latus on
in West Bengal 1051, 6571
resistance to 1051
Spodoptera litura on, lipid utilisation by
52 Acyrthosiphon kondoi in, on lucerne 4537 Aphis gossypii in, on squash 1503
Atherigona soccata in, on sorghum 1Chalcidoidea in 4462
foodstuffs in, pest control in 6650
Hymenia recurvalis in 4843
Liriomyza trifolii in 5415
locust control in 5898
moth migration in 4838, 4839, 4840,
4841, 4842
Oecophylla longinoda in 4973
Pardalaspis cosyra in, on mango 5644
plant protection in 3238
Schizaphis graminum in Agrotis orthogonia in, on wheat 6167 Ahasverus advena in, in maize grain 1414 4125 Blissus leucopterus in, on sorghum 6169 Cryptolestes ferrugineus in, in maize grain 4125 Curculionidae in 1835 Curcunomicae in 1835
Daphnia ambigua in, in fish ponds 5007
Diabrotica virgifera in 6248
Diatraea grandiosella in 3774
on maize 305, 6160
Dutch elm disease in 5209 Jute sacking, phoxim in, persistence of 5644 Juvenile hormone I (C₁₈) (see 2,6-Nonadienoic acid, 7-ethyl-9-(3-ethyl-3-methyloxiranyl)-3-methyl-, methyl ester) Juvenile hormone II (C₁₇) (see 2,6-Nonadienoic acid, 9-(3-ethyl-3-methyloxiranyl)-3,7-dimethyl-, methyl Schizaphis graminum in natural enemies of 1390 Hylurgopinus opaculus in, on Ulmus 5209 on barley 1390 on wheat 1390 Melanoplus spp. in 820 Polistes metricus in 784 Sitophilus zeamais in, in maize grain Scolytus multistriatus in, on Ulmus 5209 4656 stored groundnuts in, insect pests of 3679 Sitotroga cerealella in, in maize grain Juvenile hormone III (C₁₆) (see 2,6-Nonadienoic acid, 9-(3,3-dimethyloxiranyl)-3,7-dimethyl-, methyl 4656 soyabean in, insect pests of 1520 Spodoptera exempta in 79, 774, 1172, 4847, 5909, 5918 in pastures 4496 Surattha indentella in in turf 1943 natural enemies of 1943 Juvenile hormones
Bombyx mori 5008 kanzawai, Tetranychus natural enemies of 1132 Kaolin, against, pests of stored products 2598 Diploptera punctata 56, 3231 Hyalophora cecropia 4784, 6083 Leptinotarsa decemlineata 4782 stored-product pests intercepted in sunflower in, insect pests of 1541 karamatsu, Adelges Karathane (see Dinocap) Karbatox (see Carbaryl) Tetranychidae in Locusta migratoria 56, 2218, 3332, 5456 Manduca sexta 6082 Periplaneta americana 56 Tetranychidae in
natural enemies of 6515
on vegetable crops 1505
kenyae, Cisaberoptus
Kepone (see Chlordecone)
Ker, taxonomy of, characters distinguishing
Aegyptocheyla and 2048
Kermadec Islands
Applied in 2754 Karbatox (see Carbaryl)
karnyi, Sexava
kashmirensis, Anastatus
Kasyfia orbitella (see Coleophora orbitella)
Katelsous (see Sulfur, with phosphate rock)
Keiferia lycopersicella in USA 1029, 2501, 4051, 5704 Pieris brassicae 1234 Pieris brassicae 1234 Schistocerca gregaria 56, 1811, 6288 Spodoptera litura 6684 Tenebrio molitor 56 Trichoplusia ni 1216 identifying of 56 role of isopentenoids in chemistry of 56, 1811, 6288 mating in 1029 Anobiidae in 2754 Lasioderma serricorne in, in wheat grain on tomato
assessing infestations of 4051
in California 2501, 5704
in Florida 1029
parasites of, in California 2501
seasonal abundance of 2501
sex pheromone of 1029
tomato extracts in, toxicity of 4048
traps for 1029, 5704
Kelevan (ethyl 1,1a,3,3a,4,5,5,5a,5b,6decachlorooctahydro-2-hydroxy-γ-oxo1,3,4-metheno-1Hcyclobuta[cd]pentalene-2-pentanoate) on tomato 3229 Kermes kingii in USA 4633 Kadethrin (see Cyclopropanecarboxylic acid, 3-[(dihydro-2-oxo-3(2H)-thienylidene)methyl]-2,2-dimethyl-, [5-(phenylmethyl)-3-furanyl]methyl ester, [1R-[1a,3a(E)]]-) kaempferi, Platypleurs on Quercus rubra, in Michigan 4633 tended by fended by
Formicidae, in Michigan 4633
Polistes fuscatus, in Michigan 4633
Kerosene, against, Batocera spp., on
mulberry 378
kerri, Amrasca (see Empoasca kerri)
kerri, Empoasca (Amrasca) Kairomones
in Ephestia kuehniella, attracting parasites
3318 in Eurygaster integriceps, effects on parasites of 3861 in Heliothis zea Kerria lacca cyclobuta[cd]pentalene-2-pentanoate) erria lacca
food-plants of, pests of 2576
insecticides in, toxicity of 1350
on Albizia lucida, effects of plant growth
regulators on 2345
on Moghania macrophylla, effects of plant
growth regulators on 2345
perdators of, control of 1350
erria myscensis against Leptinotarsa decemlineata, on potato 5692 attracting parasites 174 effects of diet on 1748 stem weevils 1867 in Apis mellifera, toxicity of 1867 effects on parasites of 4064 in Mythimna unipuncta, attracting in potato persistence of 5692 residues of 1863 with Beauveria bassiana, against, parasites 3318 in Nezara viridula, attracting parasites Kerria mysorensis 6109 in India 1359 Leptinotarsa decemlineata, on potato 6539 on Shorea talura, in Karnataka 1359 kerteszi, Pseudohypocera kewleyi, Microplitis in *Plodia interpunctella*, attracting parasites 6055 in Tetranychus urticae, attracting predators 4905
Kakothrips pisivorus
biology of 5670
control of 5670
descriptions of 5670 Kelthane (see Dicofol)
Kenaf (Hibiscus cannabinus)
Kenaf (stored seeds), Oxycarenus
hyalinipennis in, development of 1542 Keys
Acanthosomatidae, in Turkey 4095
Achrysocharoides, in UK 6013
Acromyrmex, in Paraguay 3839
Actenodes, in North America 1583
Adelgidae, on conifers, in France 3611
Adelidae, in Poland 3246
Adraga, in New Guinea 6625 Kentucky descriptions of 5670 in UK 5670 Acrosternum hilare in, natural enemies of 2415 on pea, damage caused by 5670

Kakothrips robustus (see K. pisivorus) Caliroa quercuscoccineae in natural enemies of 6210

Subject Index
Keys contd.
Aholcus 5473
Allantinae, in North America 1178
Allantinae, in North America 1178 Alopecosa, in North America 1880
Altica, in Central Europe 2179
Amara, in Soviet Far East 149
Amblyseius, in India 1
Anagyrus, in India 4191
Anisodactylus, in Italy 3859
Anochetus 2659
Anomalonine genera, in Africa 4460
Anthocoridae, in India 5468
Anthomyia pluvialis complex, in Europe
6014
Anthribidae, in Japan 4187
Aphididae, on legumes, in Australia
2929
Aphididae, in Central Asia 1177
Aphytis 2841
Aradophagini 1890 Araneae, in USA 6007
Arctiidae, in British Isles 163
Asecodes 847 Ataenius, in Ohio 4530
Athous, in North America 17
Atta, in Paraguay 3839
Balocha 3614
Blondeliini, in Japan 2667
Brooksella 711
Bruchidae, in India 4197, 4198
Calligrapha 5761
Calomela 4730
Caprithrips 6027
Cecidomyiidae, in female birch catkins
5190
Ceratocapsus lutescens group 2573
Charmon 3245
Chrysididae, in Canada and USA 6317
Chrysolina, in UK 708 Chrysomelidae, in Tahiti 1833
Cicindela
in Argentina 2669
in Australia 19
Cicindelidae, in Europe, bibliography
2828
Cinara, in Italy 2082
Cixiidae, in Florida 20
Clausenia, in Palaearctic region 4981
Clavigrallini, in Africa 698
Coccinellidae, in West Indies 249
Coccinellini, in Palaearctic region 4193
Coccosterphus 4522
Cotana 287
Conopidae, in Poland 792
Copiphorini, in Australia 5292 Corticoris 1580
Craspedolepta, in Nearctic region 1181
Cremastinae, in British Isles 4211
Curculionidae, on Citrus, in Florida
2971
Cyphoderris 2658
Dermaptera, in Africa 3243
Derodontidae 4200
Diaulinopsis, in New World 3858
Dicraeus, in Africa 2899
Diaulinopsis, in New World 3858 Dicraeus, in Africa 2899 Diglyphus, in New World 3858
Drosophindae, in India 4202
Encyrtid genera, in Ethiopian region
4209
Ephialtinae, in Chile 4443
Epicauta vittata complex 6028
Eucoilidae, in British Isles 4736
Eucoilidae, in British Isles 4736 Eudiagogus 1909
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurorojoannisia, in North America 498
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurorojoannisia, in North America 498
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurorjoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurorjoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882 Hadeninae, in British Isles 163
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882 Hadeninae, in British Isles 163 Heliothis, in Colombia 6023
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurorjoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882 Hadeninae, in British Isles 163 Heliothis, in Colombia 6023 Heteroptera, in USA 6008
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882 Hadeninae, in British Isles 163 Heliothis, in Colombia 6023 Heteroptera, in USA 6008 Holepyris, in Americas 3847 Iassinae, in New World 1762
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Euprojoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882 Hadeninae, in British Isles 163 Heliothis, in Colombia 6023 Heteroptera, in USA 6008 Holepyris, in Americas 3847 Iassinae, in New World 1762
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882 Hadeninae, in British Isles 163 Heliothis, in Colombia 6023 Heteroptera, in USA 6008 Holepyris, in Americas 3847 Iassinae, in New World 1762 Isoptera, in USR 1897 Ixodoidea, in USA 6006
Eucoilidae, in British Isles 4736 Eudiagogus 1909 Eulachnus, in Italy 2082 Eumenidae, in Europe 4737 Eupalopsellidae, in Egypt 1894 Eurorjoannisia, in North America 498 Eurosta, on Solidago, in USA 6340 Fomoria, in USA 2168 Formicidae, in Fennoscandia and Denmark 2801 Frankliniella minuta group 4190 Fulgoroidea, in New Zealand 4210 gall-thrips genera 4946 grain aphid mummies 3882 Hadeninae, in British Isles 163 Heliothis, in Colombia 6023 Heteroptera, in USA 6008

Keys contd. Kilifia 704 Labopidea, in North America 709 larvae that prey on tree-trunk pests, in USSR 580 Lasioseius, in Taiwan 2662 Leptocorisa, in Papua New Guinea 1402 Lespesia, in Nearctic region 5479 Lixophaga, in Japan 4194 locusts and grasshoppers, in Thailand 2320 Luperus, in Italy 4103 Lymantria dispar parasites 4107 Lymantriidae Lymantridae
in British Isles 163
in Nearctic region 5284
Melanotus, on maize, in USA 1396
Metaphycus, in USSR 12
Microcalyptris, in USA 2168
Mirinae, on avocado, in Florida 4558
mites, in USA 6006
Mocis, in Florida 4532
Monacon 4462
Myiomma, in New World 3856
Myndus, in Americas 4192
Myrmecolax 4188
Nemapogon, in Himalayan region 602:
Nitidulini, in Iberian Peninsula 697
Noctuidae, in Queensland 2671
Noctuinae, in British Isles 163
Notidae, in British Isles 163
Notodontidae, in British Isles 163
Notodontidae, in British Isles 163
Nysius, in Hawaii 4614
Oligota, in Ethiopian region 2766
Oncideres, in Brazil and adjacent
countries 2933 in British Isles 163 6026 countries 2933 Onitis, in Ethiopian region 3727 Ocencyrtus, in Mediterranean basin 3369 Ophion genus-group 3844
Paradoxiphis, on Scarabaeidae, in
Australia 5290
Paropsis, on Eucalyptus in Tasmania
2591 2591
Pemphigus, in China 2588
Phaenocarpa, in Oriental region 4446
Phycitidae, in Central Europe 4738
Phytodictini, in India 6015
Phytoceia, in Spain 714
Phytoseiidae, in Utah 2439
Pipunculidae, in rice-fields, in Thailand 913 913 Platypus, in Canada and USA 2555 Pleuroloma 4731 Poekilocerus 4425 Polistinae, in Nepal 2167 Psylla, in Tadzhikistan 2760 Psylloidea, in British Isles 6029 Pterostichini, in South America 14 Pulvinaria 4205 in North America 5140
Pygmephorus, in Western Hemisphere 2987 Rhagoletis 5597 Rhizoecus, in Florida 3057 Scelionid genera, in Holarctic region 6032
Scoliidae, in Sri Lanka 1175
Scolytidae, in Europe 5757
Scrobipalpopsis 4728
Scutelleroidea, in Quebec 5408
Sesiidae, in California 4850
Sibinia sulcifera group 3076
Sosylus, in New Guinea 6614
Sphecidae, in New Zealand 4456
Sphingidae, in British Isles 163
Staphylinid genera, in North America 2668 6032 2668 Stethorus, in Melanesia 2840 Stichtoptychus, in Americas 5285 Tachyporus, in North and Central America 1190 Tachytes, in South America 2764 Tarsonemus, in New York 2762 Telenomus, in China 4993 Temelucha, in Australia 4461
Tenthredinidae, on forest trees, in Austria,
Switzerland, and West Germany 4627 Teruliini 6025 Tetranychidae, on cassava 6545
Thera, in central Europe 572
Thomsonisca 4447
Thrips, in Indian region 4199

Keys contd.

Thysanoptera galls 4946

Tingidae, in North Carolina 573

Trechus, in Canary Islands 1307 Triozocera 4188 Warmkea, in Neotropical region 6011 Xylophagus, in Nearctic region 2661 Zaomma 4189 in Ethiopian region 4988 Zele 3245 Kieselguhr, against, Aphis fabae, on Vicia faba 4581 Kigelia africana, Bathycoelia thalassina on, in Ghana 3053 Kilakar (see Benzenemethanol, 4-chloro-α-(4-chlorophenyl)-α-cyclopropyl-)
ifia, taxonomy of 704 Kilifia, taxonomy of Kilifia acuminata descriptions of 704 taxonomy of, neotype for 704 Kilifia americana sp. nov., description of 704 in USA 704 on Citrus, in Texas 704 on coffee, imported into USA 704
Kilifia deltoides, descriptions of 704
Kinase (phosphorylating), adenylate isoenzymes
in Dendroctonus brevicomis, population
variation in 5191 in Dendroctonus frontalis, population variation in 5191 Kinase (phosphorylating), hexo-in Chilo suppressalis, activity during diapause of 3384 napause of 3384
in Heliocopris dillonii muscles 1795
Kinase (phosphorylating), phosphofructoin Heliocopris dillonii muscles 1795
in Samia cynthia larvae 3254
Kinase (phosphorylating), phosphorylase, in
Hyalophora cecropia fat-body, properties
of 736 kingii, Kermes Kinglet, ruby-crowned, in forests, effects of insecticides on 1582
Kinoprene (2-propynyl (2E,4E)-3,7,11-trimethyl-2,4-dodecadienoate) against Aphis gossypii 2645 Choristoneura occidentalis 5154, 5155 Myzus persicae, on potato 6233
Planococcus citri, on Citrus 350
Spodoptera littoralis 4378 Trialeurodes vaporariorum on cucumber 5645
on tomato 5645
in Aphis gossypii, effects of 2645
in Choristoneura occidentalis, effects on reproduction of 5155 in Dysdercus cingulatus
effects on embryo of 4164
effects on flight muscles of 3273 effects on neurosecretory system of 3719 in Gryllodes sigillatus, effects on pigmentation of 2219 in Icerya purchasi, effects of 3815 in Microctonus aethiopoides, effects of 6241 in Microctonus colesi, effects of 6241 in Myzus persicae, effects of 1717 in Planococcus citri, effects of 3815 Kiribati (formerly Gilbert Islands) biological control in 4696 kissophila, Bryobia Kiwifruit (see Actinidia chinensis) klapperichi, Cryptolestes Klebsiella pneumoniae, in, Scirpophaga incertulas, in Orissa 1407 Kleidocerys obovatus in USA 2063 on Cupressus sergentii, in California 2063 Kleidotoma, taxonomy of, Rhynchacis as synonym of 4736 knabi, Parasarcophaga kneeboni, Pygmephorus (see Siteroptes kneeboni) kneeboni, Siteroptes (Pygmephorus) koebelei, Pleroneura koebelei, Torymus

yeast-like symbionts in 4849

Laboulbeniales, in, insects, in Taiwan 1129

436

```
Koeleria cristata, Acrididae on, in Montana
                                                                               lacaena, Tanymecus
Lacanobia oleracea, in Yugoslavia 5964
                                                                                                                                                              Lampides boeticus
                                                                                                                                                                 in Egypt 1013, 4357
in Qatar 6128
      1421
koenigii, Dysdercus
Kohlrabi (Brassica oleracea var.
                                                                               lacca, Kerria
                                                                               Laccotrephes maculatus, nitrogen in 4772
                                                                                                                                                                 on soyabean, in Egypt 1013
      gongyloides)
                                                                               lacertosus, Ephedrus
                                                                                                                                                                 parasitised by
    Delia brassicae on, oviposition by 6151
                                                                               Lachnidae
                                                                                                                                                                     Trichogrammatoidea armigera 2169
 Kola (see Cola)
                                                                                   on conifers
                                                                                                                                                                     T. guamensis 2169
kolae, Balanogastris
konbirensis, Sphenoptera
kondoi, Acyrthosiphon
Konnyaku (see Amorphophallus konjac)
konoi, Lardoglyphus
Konola hibernalis
                                                                                      in Italy
                                                                                                    2082
                                                                                                                                                              Lampra festiva
                                                                                                                                                                 control of, insecticides for 2575 in France 2575
                                                                                      in UK 6602
                                                                                   on Pinus, in Sweden 5747
                                                                               Lacinipolia renigera, bibliography
                                                                                                                                                                 on Thuja plicata, damage caused by
                                                                               Lactalbumins, diet component for,
Dermestidae 178
                                                                                                                                                                       2575
                                                                                                                                                              Lampronia, in Poland 3246
    gen. et sp. nov., description of 2656 in USA 2656
                                                                                                                                                              Lamprosema diemenalis, in India 2756
                                                                               Lactate dehydrogenase (see Dehydrogenase,
                                                                                     lactate)
                                                                                                                                                              Lampyridae, preying on, Achatina fulica
                                                                               lacteicolor, Apanteles lactella, Endrosis (see E. sarcitrella)
    on Quercus wislizenii, in California 2656
kraatzi, Pteleobius
kraemeri, Empoasc
                                                                                                                                                              lancealana, Bactra
                                                                               lacteus, Coptotermes
Lactic acid (see Propanoic acid, 2-hydroxy-)
lactinea, Amsacta (Estigmene)
                                                                                                                                                              Land use
                                                                                                                                                                 ant communities as affected by termites as affected by 130, 134
krasilnikovae, Echthrodryinus
krausbaueri, Tullbergia
Krezotol (see DNOC)
                                                                               lactinea, Estigmene (see Amsacta lactinea)
                                                                                                                                                              landolti, Acromyrmex
lanei, Melanotus
langei, Myzus
 krivolutskyi, Birsteinius
                                                                               lactis, Carpoglyphus
Lactobacillus
Ktenostreptus
                                                                                                                                                              languidus, Caryedon
lanigerum, Eriosoma
lanio, Polistes
    control of, hand collecting for 2010
    on Vigna radiata, in Karnataka 2010
on Vigna unguiculata, in Karnataka
2010
                                                                                       Anthonomus grandis, in USA 3546
                                                                                                                                                             Lannate (see Methomyl)

Lantana, Trialeurodes vaporariorum on, in
Austria 5734
                                                                                       Reticulitermes flavipes, in hind-gut
                                                                                           4464
kuehniella, Anagasta (see Ephestia kuehniella, Ephestia (Anagasta) kumaonensis, Tuckerella kuriphilus, Dryocosmus Kuwait, desert arthropods in 1837 kuwanai, Ooencyrtus Kuwanaspis pseudoleucaspis in New Zealand 160
                                                                               Lactuca sativa (see Lettuce)
                                                                               lactucae, Hyperomyzus
                                                                                                                                                              Lantana camara
                                                                               Ladora maura
                                                                                   gen. et sp. nov., description of 1890 in South Africa 1890
                                                                                                                                                                  Androthrips spp. on, in Uttar Pradesh
                                                                                                                                                                       2853
                                                                                   parasitising, Lepidosaphes beckii, in South
Africa 1890
                                                                                                                                                                 control of, biological 5945 insecticidal activity of extracts of leaves of
                                                                               Laelius pedatus
biology of 6257
parasitising, Anthrenus verbasci 6257
laeta, Pyronota
laetatorius, Diplazon
Laetiporus sulphureus, in, Quercus spp.,
                                                                                                                                                                       1675
                                                                                                                                                                  Octotoma championi on, and biological
on bamboo, in New Zealand 160

Kuzinia, on Carabidae, in Ontario 136

Kynurenic acid (see 2-Quinolinecarboxylic
                                                                                                                                                                  control using, in Australia 1907
O. scabripennis on, and biological control
                                                                                                                                                                  using, in Queensland 5498
Rubroscirus spp. on, in southern Africa
kynurenie actu (see 2-cumomiecarooxyne acid, 4-hydroxy-)
Kynurenine (see Benzenebutanoic acid, α,2-diamino-γ-oxo-)
l-album, Mythimna
                                                                                     associated with wood-boring insects
                                                                                                                                                                  Teleonemia scrupulosa on
                                                                                     1105
                                                                               laetus, Oxycarenus
laeviceps, Rhinyptia
                                                                                                                                                                     damage caused by 852 in Uttar Pradesh 2853
 L-7063 (see Benzamide, N-[[[5-(4-
                                                                               laevigata, Atta
laevigata, Hormetica
laevigatus, Alphitobius
laevinodis, Myrmica
                                                                                                                                                                  Toxoptera spp. on, in Uttar Pradesh 2853
pyrazinyl]amino]carbonyl]-2-chloro-)
Labdia
      bromophenyl)-6-methyl-2
                                                                                                                                                                  Uroplata spp. on, and biological control
                                                                                                                                                              using, in Australia 1907

U. girardi on, and biological control using, in Queensland 5498

Lantana hispida
    biology of 4086
                                                                               laevis, Macrosteles
laevis, Pseudoperichaeta
    on Acacia saligna, in Victoria 4086
Labia, preying on, Chilo spp., in Tamil Nadu 6346
Labia minor, in Malta 5413
Labiatae, Sphecidae on, in Uzbekistan
                                                                               laevis, Scolytus
                                                                               Lagenaria leucantha, Nesidiocoris tenuis on, in Gujarat 6573
                                                                                                                                                                  Octotoma championi on, development of
                                                                                                                                                                       1907
                                                                                                                                                              Uroplata spp. on, development of 1907
Lantana montevidensis
Octotoma championi on, not developing
                                                                               Lagenaria siceraria
Diaphania indica on, development of
      3337
 Labidura riparia
    chromosomes in
                                                                                         1499
                                                                               Tetranychus neocaledonicus on, in
Haryana 267
Lagria villosa
in Brazil 6313
accidental introduction of 5177
   descriptions of
in India 797
in Malta 5413
in USSR 4
                                                                                                                                                                       1907
                                                                                                                                                              Uroplata spp. on, not developing 1907 Lantana trifolia
                                                                                                                                                                  Octotoma championi on, development of
    taxonomy of 4
                                                                                                                                                                       1907
                                                                                   parasitised by, Hyalomyodes brasiliensis, in Brazil 6313
 Lablab niger (see L. purpureus)
                                                                                                                                                              Uroplata spp. on, development of 1907 Laodelphax striatella
 Lablab purpureus
                                                                               In Diazir USIS
Iahorensis, Prospaltella
Laingia psammae
in USSR 3376
on grain crops, in Kazakhstan 3376
    Adisura atkinsoni on, in Karnataka 426
                                                                                                                                                                  cereal tillering virus in, transmission of
    Anticarsia gemmatalis on, in Colombia
                                                                                                                                                                       3881
          6522
                                                                                                                                                                  control of
    Heliothis armigera on, in Karnataka 426 mung bean yellow mosaic virus in, whitefly transmission of 6528
                                                                                                                                                                     cultural
                                                                                                                                                                                    3881
                                                                               parasites of, in Kazakhstan 3376
Lake mud, phorate in, degradation of 6215
                                                                                                                                                                     insecticides for 1151, 2912, 5259
                                                                                                                                                                  development in
                                                                               Lakes, Micronecta scutellaris in, in India
1358
     Tetranychus cinnabarinus on, in Haryana
                                                                                                                                                                     effects of temperature on
          267
                                                                                                                                                                      role of symbionts in 4848
Lol T. ludeni on, in Karnataka 994

Lablab purpureus fields, parasitic insects in, in Andhra Pradesh 6310

Labopidea in North America 709

taxonomy of 709

Labonidea allii
                                                                                                                                                                 role of symbionts in
distribution of 3920
enzymes in 1151
in China 895, 918
in India 3920
in Japan 895, 2912
in Morocco 1470
in USSR 2346
                                                                               lalokensis, Perkinsiella
lamarcki, Sparassus
Lambdina fiscellaria lugubrosa
                                                                                   adult behaviour in, diel variation in 3575 in Canada 3575
                                                                               in Canada 3575
sex pheromone of, variation in responses
to 3575
lambersi, Acyrthosiphon
lambersi, Illinoia (Masonaphis)
lambersi, Masonaphis (see Illinoia lambersi)
lambersi, Pachypappa marsupialis
lambersi, Tetraneura
lambinus, Zaomma
 Labopidea allii
                                                                                                                                                                 in orange groves, in Morocco 1470 insecticide resistance in, in Kyushu 2912 insecticide susceptibility in, effects of post-treatment temperature on 5259 migration in 895, 2386 nutrition of 3270
    taxonomy of
                           709
misdentified as Orthotylus translucens,
on onion 27
Labopidicola, gen. nov., description of 709
Laboulbenia formicarum
                                                                                                                                                                  on lucerne, in Turkestan 234
on maize, in Turkestan 2346
        Acanthomyops murphyi, in North
                                                                                Lambsquarters (see Chenopodium album)
                                                                               lameerei, Patasson
              Carolina
        Formica pallidefulva, in North Carolina
                                                                                Lamellicornia, in Tunisia 4852
                                                                                                                                                                  on rice
                                                                                                                                                                  in China 918
in Punjab 3920
Spiroplasma citri in, in Morocco 1470
              1331
                                                                                Lamida moncusalis
        Lasius neoniger, in North Carolina
                                                                                   in India 946
                                                                                   on cashew, damage caused by 946
        Prenolepis imparis, in North Carolina
                                                                               Lamium purpureum, Agrotis ipsilon on Lampides, on Vigna radiata, in Sarawak
                                                                                                                                                                  starvation tolerance in 895 sterols in, sources of 732
```

Subject Index		1012
Laodelphax striatella contd.	Lasioderma serricorne contd.	Latheticus oryzae, in wheat products,
yeast-like symbionts in contd. effects of temperature on 790	in Nigeria 3651, 6645, 6646	extracting of 3668
lapathi, Cryptorhynchus	in West Germany 3106 in Areca catechu nuts, in Karnataka	Lathrobium, in Nearctic region 6022 Lathyrus sativus (stored seeds), malathion
Lapathum, Gastrophysa atrocyanea on,	3677	in, persistence of 1617
feeding by 849	in cacao beans, in Nigeria 6645, 6646	laticeps, Acromyrmex
Laphygma exigua (see Spodoptera exigua) Laphygma frugiperda (see Spodoptera	in cassava chips, in West Malaysia 3143 in dried medicinal plants	laticeps, Dendrocerus laticeps, Steneotarsonemus
frugiperda)	development of 2608	laticeps, Xeranobium
lappella, Metzneria	in Egypt 2607	laticornis, Blaesoxipha
lapponicus, Dorytomus Larch (see <i>Larix</i>)	in dried onions, development of 4344 in dwellings, in West Germany 3106	latidens, Ips latifascia, Prodenia (see Spodoptera
Larch, European (see Larix decidua)	in herbarium specimens, in West Malaysia	latifascia)
Larch, Japanese (see Larix kaempferi) Larch phloem, diet component for, Ips	3615 in oil-palm kernels, in Nigeria 6645	latifascia, Spodoptera (Prodenia)
subelongatus 1315	in spices	latifasciatus, Metasyrphus (Syrphus) latifasciatus, Syrphus (see Metasyrphus
Larch, western (see Larix occidentalis)	development of 2608	latifasciatus)
lardarius, Dermestes Lardoglyphus konoi, lipids in 3755	in Egypt 2607 in stored products, in Israel 2087	latifrons, Pseudopantomorus latipennis, Abantiades
largoensis, Amblyseius	in timber, in Israel 2087	latipennis, Metanastria
laricella, Coleophora laricinae, Trisetacus	in wheat grain, in Kermadec Islands 2754	latipes, Mocis Latoia lepida
laricinella, Diadegma	in yam chips, in Nigeria 3651	biology of 2461
laricinellae, Chrysocharis Iariciphila, Cephalcia	life-span in, not affected by γ-irradiated diet 1108	food-plants of 2350
laricis, Adelges	oviposition in 3656	in India 2350 on Azadirachta indica, in Andhra Pradesl
laricis, Asynapta (see A. strobi)	parasitised by, Anisopteromalus calandrae,	2350
laricis, Hyloicus Laricobius, preying on, Adelgidae, in North	in Karnataka 3677 predators of, in Karnataka 3677	latreillii, Achrysocharoides latus, Polyphagotarsonemus
America 4200	Lasioglossum	latus, Schizonotus
Laricobius erichsonii, preying on, Adelges piceae, and biological control using, in	Dufour's gland in, secretion of 3744 in safflower fields, in Victoria 6556	Laurus Coccus hesperidum on, in USSR 2977
British Columbia 6636	Lasioseius, in Taiwan 2662	Heliothrips haemorrhoidalis on, in
Laridae, preying on, Cerapteryx graminis, in	Lasioseius sugawarai, in Taiwan 2662	California 1063
Newfoundland 928 Larix	Lasius Dufour's gland in, secretion of 3744	Laurus nobilis, Heterotrioza alacris on, in Turkey 1310
Adelges isedakii on, in Japan 1559	Schizaphis graminum as affected by 866	lautella, Phyllonorycter
A. laricis on, in Idaho 1083 Adelgidae on, in France 3611	Lasius flavus aggression of Myrmica rubra towards	Lawns and sports turf Acanthogryllus fortipes in, in Zimbabwe
Cephalcia lariciphila on, in England	1263	6431
5752 Coleophora laricella on, in Yugoslavia	in Norway 4427 in Poland 127	Aphodius granarius in, in Ontario 5046 A. tasmaniae in, in New South Wales
2078	in Spain 3836	1948
Hyloicus laricis on, in USSR 3081	preyed on by, Solenopsis fugax 6294	arthropod pests of
insect pests of, in USSR 3059 Lachnidae on, in Italy 2082	repellents for, predator poison as 6294 urbanization as affecting 127	in Canada 2792 in Tasmania 5416
Pristiphora erichsonii on, in New	vertical distribution of 3836	in Zimbabwe 4720
Brunswick 5214 Sacchiphantes torii on, in Japan 1559	Lasius neoniger in USA 877, 1331, 1943, 6295	Ataenius spretulus in damage caused by 6208
Scolytidae on, in France 3612	Laboulbenia formicarum in, in North	in Ohio 4530
Zeiraphera diniana on in Switzerland 3585, 3587	Carolina 1331 not preying on <i>Diabrotica virgifera</i> 877	A. strigatus in, in Ohio 4530 Blissus leucopterus in, assessing
models of 3586	preying on Surattha indentella, in Kansas	infestations of 926, 5047
Larix decidua	1943	Cerapteryx graminis in, in Newfoundland 928
Asynapta spp. on, in Poland 3595 insect pests of, in Italy 6592	sampling of 6295 Lasius niger	Haplaxius crudus in, in Florida 20
insects associated with, in Poland 2593	aggression of Myrmica rubra towards	Heteronychus arator in, in New South
Larix kaempferi, Cephalcia lariciphila on, in Wales 5159	1263 competing with, <i>Myrmica rugulosa</i> 6290	Wales 1424 Melolonthidae in, in USA 4939
Larix laricina	feeding behaviour in 6293	Mocis spp. in, in Florida 4532
Pristiphora erichsonii on, in Minnesota	in Norway 4427 in Poland 126, 127, 6290	parasitic insects in, sampling of 5047 pest control on, pesticides for 2629,
Trisetacus laricinae on, in Ontario 527	in Spain 3836	2630, 2631
Larix leptolepis, arthropod pests of, in Netherlands 5772	in maize fields, in Nebraska 877 industrial pollution as affecting 126	predatory insects in, sampling of 5047 Pteronemobius taprobanensis in, in Japan
Larix occidentalis	polyethism in 6293	349
Coleophora laricella on	urbanization as affecting 127	Scarabaeidae in, in Florida 3445
assessing infestations of 2567 effects of plant growth stage on 530	vertical distribution of 3836 Laspeyresia (see Cydia)	Spodoptera cilium in, in Spain 3444 Surattha indentella in, in Kansas 1943
rearing of 529	Laspeyresia caryana (see Cydia caryana)	Tipulidae in, in UK 5044
Larix polonica (see L. decidua) Larrea tridentata, Atta mexicana on, in	Laspeyresia dannehli (see Cydia pyrivora) Laspeyresia molesta (see Cydia molesta)	leae, Chelaner Leaf, insecticides on, model of disappearance
Mexico 5459	Laspeyresia pomonella (see Cydia	of 5269
Lasiocampidae	pomonella) Laspeyresia pyrivora (see Cydia pyrivora)	Leaf hopper cold immobilisation as affecting 2278
flight activity in 3771	Laspeyresia saltitans (see Cydia saltitans)	natural enemies of 340
in Finland 5411 Lasioderma serricorne	Laspeyresia splendana (see Cydia splendana) Laspeyresiini, taxonomy of 1174	on maize effects of disking on 857
biology of 4344	lasus, Brachymeria	effects of monoculture on 6371
control of	lata, Atractomorpha	on okra, in Tamil Nadu 414
fumigants for 3615, 6646 growth regulators for 3664	Latalus sayii in USA 1945	on rice in Bangladesh 5032
inert dusts for 6176	on Festuca arundinacea, in Missouri	in Western Australia 6421
insecticides for 3615, 6651 y-irradiation for 6652	1945 lataniae, Hemiberlesia	on soyabean, in Missouri 459 on sweet potato, effects of monoculture or
temperature control for 3662, 3669	latens, Petrobia	6371
traps for 3615	lateralis, Napomyza lateralis, Tropisternus	Leaf litter Hemicheyletia bakeri in, in Pakistan
cuticle in, lipids in 5331 in Egypt 2607	Latex	4982
in India 3677	in Galleria mellonella, phagocytosis of 4243	invertebrates in, separating of 3793 Oribatei in, in Philippines 6004
in Israel 2087 in Kermadec Islands 2754	in Locusta migratoria, phagocytosis of	Leaf miner, on street trees, in Ukraine
in Malaysia 3143, 3615	4243	5183

```
Leaf roller, on apple, effects of plant spacing
on 380
                                                                                                Lema cyanella contd.
                                                                                                                                                                                                Lepidiota frenchi contd.
                                                                                                    on Carduus, feeding by
                                                                                                                                                                                                    in Australia 3880
                                                                                                                                                                                                    on sugar-cane, in Queensland 3880
 Leander adspersus (see Palaemon adspersus)
                                                                                                     on Cirsium, feeding by
                                                                                                                                                    1904
                                                                                                                                                                                                Lepidiota picticollis
in Australia 863
                                                                                                     on Silybum, feeding by
                                                                                                                                                    1904
 Learning
     in Drosophila melanogaster 4830 in Formica rufa workers 2326
                                                                                                 Lema lichenis (see Oulema lichenis)
                                                                                                 Lema melanopus (see Oulema melanopus)
                                                                                                                                                                                                    on sugar-cane, in Queensland 863
 Lebanon, Bruchidae in 4298
                                                                                                 Lema rufocyanea (see Oulema rufocyanea)
                                                                                                                                                                                                Lepidiota stigma
 Lebaycid (see Fenthion)
                                                                                                 Lema septentrionis (see Oulema
                                                                                                                                                                                                    Bacillus popilliae in, pathogenicity of
Lebia viridis
in USA 2367
reservoirs of 2367
                                                                                                       septentrionis)
                                                                                                Lemnia biplagiata
in Taiwan 3316
                                                                                                                                                                                                    bacteria in, in Indonesia 616
                                                                                                                                                                                                    fungi in, in Indonesia 616
                                                                                                    preying on, Hysteroneura setariae, in
Taiwan 3316
Lebini, in oak forests, in Michigan 5198
Lecaniobius, in Trinidad 2768
lecaniorum, Encyrtus
Lecanium corni (see Parthenolecanium
                                                                                                                                                                                                    in Indonesia 616
                                                                                                                                                                                                Lepidium perfoliatum, Myzus persicae on, development of 396
                                                                                                 Lemnia saucia
                                                                                                    in Taiwan 3316
                                                                                                                                                                                                Lepidoglyphus destructor
                                                                                                     preying on, Hysteroneura setariae, in
Taiwan 3316
       corni)
                                                                                                                                                                                                    acaricide resistance in, detecting and
                                                                                                                                                                                                   measuring of 3711
in Irish Republic 5926
in UK 4660
in USSR 5803
 Lecanium oleae (see Saissetia oleae)
                                                                                                 Lemnia swinhoeii (see L. saucia)
     diet component for, Lixophaga diatraeae
                                                                                                 lemniscata, Diabrotica
            1316
                                                                                                 Lemon (Citrus limon)
     in grain mites 3755
                                                                                                     Aleurocanthus woglumi on, in Florida
                                                                                                                                                                                                    in oat grain, varietal preferences of 3135
     in Pimpla turionellae accessory glands
                                                                                                           4565
                                                                                                                                                                                                    in stored grain, in Irish Republic 5926 in wheat grain, damage caused by 4120
                                                                                                      Aphis citricola on, in Karnataka 401
3340

lecontei, Enoclerus

lecontei, Neodiprion

Lectins (see Agglutinins)

leda, Melanitis

Leek (Allium porrum)

Acrolepiopsis assectella on
assessing infestations of 3030
damage caused by 470, 3031
effects on reproduction of 5698
in France 6548
oviposition by 2499
Agrotinae on, in Poland 1864

Delia antiqua on, damage caused by
            3340
                                                                                                     Brevipalpus californicus on, in Egypt 983
                                                                                                                                                                                                Lepidoglyphus fustifer, in USSR 5803
                                                                                                     Coccus hesperidum on
in Georgia (USSR) 2453
in USSR 2977
                                                                                                                                                                                                Lepidoptera
book 6265
                                                                                                                                                                                                    chromosome aberrations in, detecting and isolating of 2772
                                                                                                    in USSR 2917
Dialeurodes citri on
in Afghanistan 2968
in Florida 4565
insecticides in, residues of 4160
Phyllocnistis citrella on, in Afghanistan
                                                                                                                                                                                                    control of
                                                                                                                                                                                                        behaviour-modifying chemicals for 1736
                                                                                                                                                                                                         biological 52
genetic 3173
                                                                                                                                                                                                                               5248
                                                                                                     Prays citri on, damage caused by 563
Tetranychus urticae on, in Italy 4569
                                                                                                                                                                                                         insecticides for 2951
                                                                                                                                                                                                    egg production in, male nutrient
     Delia antiqua on, damage caused by
                                                                                                                                                                                                           contribution to 5311
            5699
                                                                                                 Lemon oil
     Liriomyza cepae on 1026
Noctuidae on, damage caused by 5699
Thrips tabaci on, damage caused by
5699
                                                                                                                                                                                                    eggs of, making casts of 4880
embryonic moulting in 2187
food-plant selection in 4822
                                                                                                     insecticidal activity of 3797
                                                                                                     synergist for
                                                                                                         cypermethrin 3797
                                                                                                                                                                                                   foraging behaviour in, relation of predation and 4831 in Compro Islands 5449 in Finland 159, 3827, 4853, 5411 in Italy 1309, 2292 in Mongolia, book 3308 in Newfoundland 4865 in Romania 105 in United Kingdom, book 2789 in USSR 2752 in beehives, in Norway 4110 in cacao plantations, in Costa Rica 5133 in deciduous forests, plant associations of 1097
                                                                                                         pirimiphos-methyl 3797
                                                                                                                                                                                                    foraging behaviour in, relation of
                                                                                                Lemophagus curtus
in USA 4504
in USSR 1386
Leersia hexandra
     Brachmia arotraea on, in Orissa 3392
Cnaphalocrocis medinalis on, in Orissa
                                                                                                     in oat fields, effects of tillage on 873
            3392
                                                                                                    parasitising
Oulema lichenis, in USSR 1386
     Orseolia oryzae on, in Thailand 2909
 Legislation
     insecticide use in West Germany 3181,
                                                                                                         O. melanopus
                                                                                                             and biological control using, in Ohio 873
            3182
mirex use 643
Legume yellows virus
characterisation of 3003
hosts of 3003
                                                                                               in Maryland 4504

Lemurimyza pectoralis, in Egypt 4357

lengi, Coleomegilla maculata

Lens culinaris (see Lentil)

Lens esculenta (see Lentil)

Lentil (Lens esculenta)

arthropod pests of, in Egypt 4357

Bruchus lentis on, in France 5667

B. signaticornis on, in France 5667

Contarinia lentis on, in France 5667
                                                                                                                                                                                                           1097
                                                                                                                                                                                                   in deserts, in Soviet Central Asia 1304 in dwellings, in Norway 4110 in forests, population size, variability, and aggregation in 6604 in oak forests, in New Jersey 571 in orchards, in Honshu 6121 in stored grain 1600
          Acyrthosiphon pisum, transmission of
                3003
          Aulacorthum solani, transmission of
                3003
Legumes
Aphididae on, in Australia 2929
arthropod pests of
book 4030
                                                                                                     Contarinia lentis on, in France 56
Myzus persicae on, in India 5497
                                                                                                                                                                                                    in stored grain 1609
in stored groundnuts 3145
                                                                                                     Sitona lineatus on, development of 4579
    in Canada 2792
in Egypt 4357, 4358
in New South Wales 2161
in West Malaysia 4723
Leptopinae on, in Queensland 2482
whitefly-transmitted viruses in, review
                                                                                                     subterranean clover red leaf virus in, in
                                                                                                                                                                                                    in stored products
                                                                                                            New Zealand 1504
                                                                                                                                                                                                        humidity requirements of 3112 in Norway 4110
                                                                                                Lentil (stored seeds)
insecticides in
                                                                                                                                                                                                    insecticide resistance in 1143
                                                                                                                                                                                                   insecticide resistance in 1143
detecting and measuring of 3714
killing-bottle for 6142
migration in 4838, 4839, 4840, 4841,
4842, 6102
on apple, in Norway 5605
on Cajanus cajan, in Nigeria 1016
on Eichhornia crassipes 274
on forest trees 2155
                                                                                                         effects on composition of 4401 residues of 4397
            3148
                                                                                                     malathion in, persistence of 1617
3148
Legumes (stored), insect pests of, in
Swaziland 4662
Legumes (stored seeds), arthropod pests of,
book 4030
leguminicola, Dasineura
Leguminivora glycinivorella
biology of 1513
distribution of 1513
in Japan 1513
on soyabean in Japan 1513
                                                                                               malathion in, persistence of 1617 lentis, Bruchus lentis, Contarinia lentiscoides, Slavum Lenzites platyphylla, in, rubber wood, responses of termites to 5226 leona, Anomis leonardii, Luperus leperii, Epidiaspis Leperisinus californicus
                                                                                                                                                                                                   on forest trees 2155
ecophysiology of, book 5798
on hardwood forest trees, dietary
preferences of 4932
on Larix decidua, in Poland 2593
on leaves, effects of leaf-water
supplementation on 88
on leguminous crops, in Egypt 4357
on mulberry, in India 378
on Pinus, in Italy 5741
on Poa annua, in North America 2856
on rice
     on soyabean, in Japan 1513
parasites of, in Japan 1513
                                                                                                    aggregation pheromone in 5204 in USA 5204
 Leguminosae, Sphecidae on, in Uzbekistan
                                                                                                 Leperisinus fraxini
        3337
                                                                                                     acoustic communication in 549
                                                                                                     pheromonal communication in
                                                                                                                                                                   549
     cocksfoot mottle virus in, transmission of
                                                                                                     stridulatory apparatus in 549
                                                                                               stridulatory apparatus in 549

Leperisinus varius
biology of 2053
in West Germany 2053
on Fraxinus, in West Germany
parasites of, in West Germany 2
lepida, Latoia
Lepidiota frenchi
control of, insecticides for 3880
            5518
                                                                                                                                                                                                    on rice
                                                                                                                                                                                                   on rice
in India 1930
in Spain 3388
on soyabean
in Kenya 1520
in Missouri 459
in New South Wales 1518
on sugar-cane, in Bangladesh
on sunflower, in Kenya 1541
genitalia in 717
reproductive system in 717
taxonomy of, characters for 717

Lema cyanella
food-plant specificity in 1904
in Switzerland 1904
in West Germany 1904
Nosema spp. in, in West Germany 1904
```

sojoet indon		101
epidoptera contd.	Leptinotarsa decemlineata contd.	Leptocorisa oratorius contd.
parasitised by	in Denmark 5282, 6270	parasitised by contd.
Chalcidoidea, in Bangladesh 6325 Ichneumonidae, in Poland 2075	in France 3024	Ocencyrtus malayensis, in Papua New
Johnsoniini 4726	in Poland 2462, 3539 in Romania 5692, 5700	Guinea 1402 preyed on by, <i>Conocephalus</i> spp., in
Ooencyrtus spp. 3369	in UK 4851	Papua New Guinea 1402
Tachinidae, in Bangladesh 6325	in USA 3541, 6551	Leptocorisa solomonensis
phagostimulants for, testing of 1720	in USSR 626, 1526, 1527, 3021, 3022,	in Papua New Guinea 1402
pheromones in perception of 1235	3184, 3532, 5112, 5963, 6539	on rice, in Papua New Guinea 1402
problems in pest-control applications of	integument in, electrical properties of 5332	Leptocorisa varicornis (see L. acuta) leptocorisae, Gryon
1735	juvenile hormones in, developmental	Leptoglossus australis, food-plant
population dynamics of, role of dispersal	changes in 4782	preferences in 2242
and migration in 1272 preyed on by, birds, in New Hampshire	moulting hormones in 5341	Leptoglossus membranaceus (see L.
5753	developmental changes in 4782	australis) Leptoglossus zonatus, thorax in 6039
radar for studying flight in 4868	olfaction in 4043	Leptohylemyia coarctata (see Delia
scale defects in 2678	on potato damage caused by 3539	coarctata)
taxonomy of endings of species names 5296	development of 1527	Leptomastidea abnormis, insecticides in,
gender of genus-group names 5296	forecasting infestations of 5963	toxicity of 5631 Leptomastix dactylopii
traps for 173, 4853	in Austria 1756	acaricides in, toxicity of 2332
effects of lunar phase on catches in	in Byelorussia 1526	insecticides in, toxicity of 2332, 5631
2258 epidosaphes beckii	in France 3024 in Poland 2462	parasitising
control of	in Romania 5692, 5700	Planococcus citri 2332 and biological control using, in Italy
biological 2974	in RSFSR 3021	5636
insecticides for 978	in USSR 3022, 3532	Leptophos (O-(4-bromo-2,5-dichlorophenyl
timing of 4338 in Brazil 4003	olfactory responses of 4043 on Solanum sarrachoides, fecundity of	O-methyl phenylphosphonothioate) against
in Egypt 4333, 4338	6535	Achaea janata, on castor 5710
in South Africa 1890, 2974	on tomato	Agrotis ipsilon, on cotton 2536
on Citrus	damage caused by 6551	A. orthogonia, on wheat 6167
in Brazil 4003 in South Africa 2974	effects of tobacco mosaic virus on 4898	Amrasca biguttula, on castor 5710 A. devastans, on cotton 2543
on orange, in Egypt 4333	in Georgia (USA) 3541	Baliothrips biformis, on rice 890
parasitised by, Ladora maura, in South	population dynamics of, model 6540	Contarinia sorghicola, on sorghum
Africa 1890	predators of, parasitism of 5112	5574 Did dia amin'ny faritr'i Cara
seasonal abundance of 4003, 4333, 4338 epidosaphes malicola	rearing of, techniques for 3024 sex pheromone of 2248	Dicladispa armigera, on rice 6373 Earias insulana, on cotton 2543
biology of 2948	vitellogenesis in	E. vittella, on cotton 2543
food-plants of 2948	hormonal regulation of 2715	Exelastis atomosa 3009
in Iran 2948	regulation of 4780	Heliothis armigera 1149
in USSR 2948, 2949 parasites of	Leptinotarsa haldemani enzymes in 3257	Pectinophora gossypiella, on cotton 2543, 6564
effects of insecticides on 2949	growth regulators in, degradation of	Pterochloroides persicae, on peach 39
in Armenia 2949	3257	Sciothrips cardamomi, on Elettaria
predators of	Leptocera, Stigmatomyces crassicollis in, in	cardamomum 6343
effects of insecticides on 2949 in Armenia 2949	Italy 4138 Leptocera ochripes	Spodoptera exigua on lucerne 2297
epidosaphes ulmi	in France 3432	on potato 3020
biotypes of 955, 956	in grassland, in France 3432	S. littoralis 223, 2634, 5723
descriptions of 956 diapause in 956	Leptocorisa control of, insecticides for 3969	on cotton 5718 S. litura 1154
in USSR 1556	in Papua New Guinea 1402	in cheese, residues of 5983
on ornamental shrubs, in USSR 1556	on rice	in Coccinella septempunctata, toxicity of
episma saccharina	in Asia 900	in Consingle underimpunatate toxicity
control of, insecticides for 3837 in Bermuda 3837	in Indonesia 3415 in Philippines 3969	in Coccinella undecimpunctata, toxicity of 2634
in dwellings, in Bermuda 3837	Leptocorisa acuta	in cotton, persistence of 5723
eptinotarsa decemlineata	control of, insecticides for 6381	in cotton-field soil, persistence of 2543
control of 1527	distribution of 2265 in China 795	in Spodoptera littoralis, enzyme inhibitio by 6710
biological 626, 3024, 3532, 4135, 5112, 5861	in India 795, 1366, 1839, 1840, 2265,	in vegetables, removing residues of 672
fumigants for 6696	2900, 5553, 6381	in wheat bran, residues of 5983
growth regulators for 3216	in Malaysia 795	in wheat flour, residues of 5983
insecticide-pathogen mixtures for 5861, 6539	in Papua New Guinea 1402 in Philippines 323, 892	resistance to, in Spodoptera littoralis
insecticides for 639, 1157, 1526, 2462,	in Sri Lanka 324	in Egypt 486
2627, 3021, 3022, 3532, 3541, 5692,	on nutmeg, damage caused by 1366	mechanisms of 4360, 4361, 4364
5700, 6551	on rice	role of esterases in 57
threshold for 5963 timing of 6551	effects of sowing date on 892 in Bihar 2900	with chlordane, against, Heliothis armigera 1149
corpus allatum in, regulation of activity of	in Karnataka 6381	with chlorpyrifos, against, Heliothis
763	in Papua New Guinea 1402	armigera 1149
development in, effects of food-plant on	in Philippines 323 in Punjab 5553	with DDT, against, <i>Heliothis armigera</i>
diapause in, JH titres associated with	in Sri Lanka 324	with dicrotophos, against, Heliothis
5341	seasonal abundance of 2900	armigera 1149
energy metabolism in 3743	Leptocorisa elegans (see Stenocoris elegans)	with endrin, against, Heliothis armigera
enzymes in 730, 3257 EPPO data sheet on 4703	Leptocorisa oratorius biology of 1402	with EPN, against, Heliothis armigera
fat-body in	control of	1149
changes in reserves in 5316	cultural 1402	with HCH, against, Heliothis armigera
effects of physiological state on 58	insecticides for 1402	1149 with mephosfolan, against, <i>Heliothis</i>
fecundity in, effects of food-plant on 6535	in Malaysia 322 in Papua New Guinea 1402	armigera 1149
flight activity in, amino acid metabolism	on rice	with methomyl, against, Heliothis
during 730	in Papua New Guinea 1402	armigera 1149
growth regulators in degradation of 3257	in West Malaysia 322 parasitised by	with monocrotophos, against, Tetranychic cinnabarinus 490
effects of 4166	Gryon nixoni, in Papua New Guinea	with phosfolan, against, Heliothis
in America 1756	1402	armigera 1149

Leptopiinae	Lettuce contd.	Leucoptera meyricki contd.
on Desmodium intortum, in Queensland	Lepidoptera on, in Arizona 5646	in Zimbabwe 4720
2482	leptophos in, removing residues of 6721	on coffee, in Zimbabwe 4720
on Macroptilium atropurpureum, in	Otiorhynchus cribricollis on, in Italy 992	Leucoptera scitella
		in Italy 209, 6457
Queensland 2482	pest control on 1487, 6501	
on Vigna unguiculata, rearing of 2482	thresholds for 1486	on apple, in Italy 6457
Leptopius maleficus	traps for 5646	on pear, in Italy 6457
in Australia 863	Trupanea amoena on, in Turkey 1311	leucopterus, Blissus
on sugar-cane, in Queensland 863	Lettuce necrotic yellows virus, aphid	leucotreta, Cryptophlebia
Leptopterna dolabrata	transmission of 5437	levantinus, Nemapogon
in UK 4175	Lettuce (stored), pest control in, fumigants	Levarterenol ((R)-4-(2-amino-1-
on barley, in Scotland 4175	for 3618, 6641	hydroxyethyl)-1,2-benzenediol)
Leptopterna ferrugata	Leucaena	in Manduca sexta 751
control of, cultural 348	Merobruchus spp. on 1584	leviventris, Meteorus
in UK 3443	Stator spp. on 1584	Levodopa (3-hydroxy-L-tyrosine)
in USA 348	Leucania loreyi (see Mythimna loreyi)	Aphis fabae feeding responses to 1824
in grassland, effects of cutting on 3443	Leucania separata (see Mythimna separata)	in Beta vulgaris var. altissima 1824
on Festuca rubra, damage caused by 348	leucarthros, Necremnus	in Vicia faba 1824
Leptospermum, Pyronota spp. on, in New	leucaspis, Argyroploce	lewisii, Aulacophora
Zealand 5871	Leucauge celebesiana	Libya
Leptosphaeria coniothyrium	in India 2820	Ceroplastes floridensis in, on Citrus 358
in	preying on, Aphis craccivora, in India	Dacus oleae in, on olive 5642
raspberry	2820	entomophagous arthropods in 2823
in Scotland 940	L-Leucine	maize in, insect pests of 2368
infectivity of 1443	in Artogeia rapae, incorporation into	Saissetia oleae in, natural enemies of
		3508, 5083
Leptothorax, food exchange in, studying of	cuticular proteins of 1213	
1337	in Hypena iconicalis, not found 2225	Urophorus humeralis in
Leptothorax tuberum	in Locusta migratoria hemolymph, fate of	on date palm 358
in Spain 3836	1211	on maize 358
vertical distribution of 3836	in Lucilia sericata hemolymph, fate of	lichenis, Lema (see Oulema lichenis)
Leptothrips mali	1211	lichenis, Oulema (Lema)
in USA 4919	in Sitophilus oryzae diet, requirement for	Lichenophanes varia
in apple orchards, in Virginia 4919	3269	in Bulgaria 942
preyed on by, Araneae 4919	in Spodoptera littoralis, effects of	on grapevine, damage caused by 942
preying on, Panonychus ulmi 4925	insecticides on 4362, 4363	Lichtensia viburni
rearing of, techniques for 4925	in Spodoptera littoralis hemolymph, not	in Netherlands 533
Leptura, compound eyes in 715	affected by DDT 3818	on Hedera helix, in Netherlands 533
Leptura aethiops	Nilaparvata lugens feeding responses to	Licorice (see Liquorice)
biology of 4639	3413	licus, Castnia
in East Germany 4639	Leucinodes orbonalis	lienardi, Achaea
on Betula, in East Germany 4639	control of	Light-trap
Leptus	insecticides for 1538, 4052, 5705	attractants for use in 1169
parasitising	timing of 4052	dichlorvos in, effects on specimen
Acrididae, in Iraq 4453	in India 1538, 4052, 5705	coloration of 4315
Choristoneura fumiferana, in Maine	on eggplant	for
6596	in Gujarat 1538	Acrobasis nuxvorella 373
Leschenaultia exul	in Haryana 5705	Adoxophyes orana 4701
in USA 2568	in West Bengal 4052	Agrotis ipsilon 4332
parasitising, Malacosoma disstria, in	leucitys, Symmerista	Choristoneura fumiferana 1597
Minnesota 2568	leucogramma, Entendon	Coccinellidae 1888
Leskia hirtula	leucoloma, Graphognathus	Coleoptera 4875
in Ghana 4497	Leucoma salicis	effects of lunar phase on catches in
parasitising, Sesamia spp., in Ghana	control of, biological 6629	2258
4497	flight activity in 1093	Conoderus exsul 4416
Lespedeza, Meibomeus musculus on 1584	Fusarium spp. in, in USSR 1123	C. falli 4416
Lespedeza cuneata, cowpea chlorotic mottle	hyperparasites of, in Yugoslavia 5792	Cyrtorhinus lividipennis 6406
virus in, beetle transmission of 2007	in Netherlands 5772	Diaprepes abbreviatus 2701
Lespesia	in North America 5284	Diatraea grandiosella 3774
key 5479	in Poland 3592	Ephydridae 782
parasitising, Plusia spp., in Brazil 5672	in Switzerland 6629	Heliothis zea 65, 1048
Lespesia aletiae	in USA 1069, 1093	Heterocera 1169
in USA 1000	in USSR 1123, 5183	Holotrichia consanguinea 2281
parasitising, Artogeia rapae, in Florida	in Yugoslavia 5792, 5863	insect pests 4146
1000	larval development in, effects of food-	insects 634
Lespesia frenchii	plant on 1069	Lasioderma serricorne 3615
in USA 2568	mating in 1093	Lepidoptera 105, 4853, 5378, 5646
parasitising, Malacosoma disstria, in	on Populus	effects of lunar phase on catches in
Minnesota 2568	in Netherlands 5772	2258
Lesser Antilles, Danaus plexippus in 2249	in Switzerland 6629	Mamestra configurata 2125, 4574
Lestodiplosis	on Populus deltoides, in Maine 1069	Nephotettix 6408
preying on	on Populus grandidentata, in Maine	Nilaparvata lugens 339, 341, 3916,
Cecidomyiidae, in Netherlands 5190	1069, 1093	6406, 6408
Parlatoria oleae, in Greece 3799	on street trees, in Ukraine 5183	Noctuidae 106
Letharia vulpina, antifeedant activity of	oviposition in 1093	parasitic Hymenoptera 171
components of 4148	parasites of, in Yugoslavia 5792	pests of cabbage 173
lethifera, Blaps	parasitised by	pests of rice 2374
Lethocerus	Apanteles melanoscelus 570	Plutella xylostella 6107
on man, bites by 3781	in Poland 3592	Sciaridae 782
preying on, fish 3781	Meteorus versicolor, in Poland 3592	Silvanus bidentatus 3615
Lettuce (Lactuca sativa)	polyhedrosis virus in, in Yugoslavia 5863	Sogatella furcifera 3916, 6406, 6408
Agrotis spp. on, in Zambia 1052	leucomelas, Chaitophorus	Spodoptera exempta 5918
A. segetum on, assessing infestations of	Leucophaea maderae	S. exigua 4328, 4331
3810	gut cuticle in, permeability of 5333	S. littoralis 4326
arthropod pests of, in Zimbabwe 4720	immunity in 5231	Wiseana 5866
as cover crop in cabbage fields 6506	vitellogenins in 5005	Zeiraphera diniana 3585
Autographa californica on, in California	Leucopholis rorida	lamp types for 4321
1487	bacteria in, in Indonesia 616	made from 'Star Beam' toy 6141
cypermethrin in, metabolism of 5985	fungi in, in Indonesia 616	Light-trap, emergence, for, Sapyga pumila
insect pests of	in Indonesia 616	1952
in California 1486	Leucopis, preying on, Hysteroneura setariae,	Light-trap, Robinson
in Quebec 269	in Taiwan 3316	for
in UK 6501	Leucoptera meyricki	Heteronychus arator 4531
insecticides in, residues of 3176	control of, insecticides for 4720	Teleogryllus commodus 4531

11.4 D.11		
ight-trap, Robinson contd. modifications to 4531	Lindane contd.	Lindane contd.
ight-trap, time-sorting, for, Lepidoptera	against contd.	in Coccinella septempunctata, toxicity of
3771	Anoplolepis longipes 825	1712
ignin	Aphis craccivora 1712 A. gossypii 1712	in Coccinella undecimpunctata, toxicity o 2634
in Neotermes bosei diet, digestion of	Atomaria linearis, on sugar-beet 464	
6329	Blattaria 669	in Elodea densa, effects on cell membrane potentials of 5984
in raspberry, effects of Resseliella	Byctiscus betulae, on grapevine 2941	in environment, degradation of 3203
theobaldi on 1443	Callosobruchus chinensis, in Cicer	in forest soils, residues of 3078, 5769
igniperda, Camponotus	arietinum seeds 5228	in forest trees, residues of 5769
igniperda, Hylurgus	Capnodis tenebrionis, on cherry 3996	in Locusta migratoria, effects on corpora
ignosellus, Elasmopalpus	Carpomyia vesuviana 6477	cardiaca of 4262
ignyodes enucleator	Chilo spp., on rice 6411	in man, residues of 5768
in Poland 3776 on Fraxinus excelsior, in Poland 3776	C. partellus, on sorghum 1416	in mangel, residues of 6723
on Ligustrum vulgare, in Poland 3776	C. polychrysus, on rice 2376	in Ooencyrtus kuwanai, toxicity of 1159
on lilac, in Poland 3776	Chortoicetes terminifera 6276	in Picea abies, residues of 3078
igulella, Dichomeris	Coptotermes formosanus, in pine wood	in pine wood, persistence of 5487
igustica, Apis mellifera	5487	in Pinus sylvestris, residues of 3078
igustici, Otiorhynchus	Corcyra cephalonica	in plywood, not affecting landing time of
igustrum japonicum, Asphondylia sphaera	in sorghum grain 5809 in wheat grain 5809	Scolytus multistriatus 2055
on, in Japan 3096	Costelytra zealandica, in pastures	in potato, residues of 6723
igustrum lucidum, Dialeurodes citri on, in Florida 979	1422, 5877	in rape, residues of 6723 in Rhinyptia laeviceps, sex differences in
igustrum obtusifolium, Asphondylia	Culicidae 669	susceptibility to 5263
sphaera on, in Japan 3096	Dacus cucurbitae 1500	in rice, not affecting germination 3905
igustrum ovalifolium, Callirhopalus	Dendroctonus micans, on Picea 1604	in rice-fields, non-target effects of 6411
bifasciatus on, oviposition by 1058	Dicladispa armigera, on rice 6373	in soil, residues of 6723
igustrum vulgare	Distantiella theobroma, on cacao 583,	in sorghum grain, residues of 5817
Aphidoidea on, in USSR 6585	4078	in spinach, residues of 3209
Lignyodes enucleator on, in Poland 3776	Elateridae	in Spodoptera littoralis, effects of
Rhagoletis cerasi on, oviposition by 6474	on grain crops 2359 on maize 2891	formulation on susceptibility to 3821
in USA 5059	Ephestia cautella	in stored products, residues of 585
in vineyards, in Pennsylvania 5059	in sorghum grain 5809	in sunflower, toxicity of 6700
ilac (Syringa vulgaris)	in wheat grain 5809	in Telenomus terebrans, toxicity of 1159
Lignyodes enucleator on, in Poland 3776	Euproctis chrysorrhoea, on Rubus 668	in tobacco, residues of 6723
ilacinus, Planococcus	Exelastis atomosa 3009	in wheat grain, residues of 5817
iliaceae, Sphecidae on, in Uzbekistan	forest pests 3175	resistance to, in
3337	Formicidae 669	Eurygaster integriceps, in Iran 3365
ily, Bradysia agrestis on, in Honshu 1557	Gryllotalpa spp., on sugar-beet 6533	Oryzaephilus surinamensis, in India 6640
imacina, Caliroa (see C. cerasi) ime (Citrus aurantifolia)	Heterotermes indicola, in pine wood 5487	pests of stored products 3109, 5804
Brevipalpus californicus on, in Punjab	Hydrellia spp., on rice 2372	Rhyzopertha dominica, in India 6640
6487	H. philippina, on rice 5034	Sitophilus granarius 5814
citrus tristeza virus in, aphid transmission	Ips typographus, on Picea 2563	S. oryzae, in India 6640
of 2978	Leptocorisa spp., on rice 1402, 3969	Tribolium castaneum, in India 6640
Papilio demoleus on, in West Malaysia	Leucinodes orbonalis, on eggplant	with Bacillus thuringiensis, against,
404	5705	Euproctis chrysorrhoea, on Rubus
ime (Citrus aurantifolia) oil	Lipaphis erysimi 1712	668
insecticidal activity of 3797	on rape 2468 Loxostege sticticalis 6700	with carbaryl against
synergist for, cypermethrin 3797 Lime (Tilia) (see Tilia)	Mericserica oberthuri, on coffee 6580	Amrasca devastans, on cotton 2543
imnoria, control of, pesticides for 4706	Myllocerus discolor 3048	Carvalhoia arecae, on Areca catechu
imnoria tripunctata	Nilaparvata lugens, on rice 5555, 6399	6446
creosote resistance in, associated with gut	Nymphula depunctalis, on rice 2372	Chilo partellus
flora 4130	Ostrinia furnacalis, on maize 5533	on maize 2365
in Puerto Rico 4130	pests of forage crops 351	on sorghum 5573
in piles, in Puerto Rico 4130	pests of maize grain 3661	C. polychrysus, on rice 2376 Earias insulana, on cotton 2543
imonene (see Cyclohexene, 1-methyl-4-(1-methylethenyl)-)	pests of structural wood 2097 pests of sugar-beet 1523	E. vittella, on cotton 2543
imunius canus	pests of Vigna unguiculata 4585	Loxostege sticticalis 6700
control of, insecticides for 3536	pests of wood 4102	Nilaparvata lugens, on rice 5555
in USA 1488, 3536	Podosesia syringae, on Fraxinus 565,	Pectinophora gossypiella, on cotton
on cucurbits, in California 1488	3085	2543
on potato, in Washington 3536	Polydesmus spp., on sugar-beet 6533	Scirpophaga incertulas, on rice 237
imosina ochripes (see Leptocera ochripes)	Prionoxystus robiniae, on Fraxinus 3085	in sunflower, toxicity of 6700 with DDT
in USSR 1418	Rhinyptia laeviceps 5263	against
on Bromus racemosus, varietal preferences	Sahlbergella singularis, on cacao 583,	Eublemma amabilis 1350
of 1418	4078	Meligethes aeneus, on rape 3516
imothrips consimilis	Scirpophaga incertulas, on rice 2376	in rape fields, non-target effects of
in USSR 1418	Scolytus spp., on Ulmus 6610	3516
on Bromus racemosus, varietal preferences	Sitobion avenae, on grain crops 6349	with malathion, against, Leucinodes
of 1418	Sitona lineatus, on Vicia faba 6509	orbonalis, on eggplant 5705
control of, insecticides for 2867	Sitotroga cerealella in sorghum grain 5809	with oil emulsion against
in USSR 1418, 2867	in wheat grain 5809	Dendroctonus micans, on Picea
on Bromus racemosus, varietal preferences	Spodoptera littoralis 486, 2634, 3821	1604
of 1418	S. litura 3222	Gilletteella coweni, on Pseudotsuga
on grain crops, in Byelorussia 2867	Thrips tabaci, on onion 5697	3072
inaeidea aenea, defensive secretion in,	Tipula spp. 864	Lindbergina aurovittata
components of 4767	Uroleucon carthami 1712	food-plants of, seasonal changes of 191
inalool (see 1,6-Octadien-3-ol, 3,7-	Viteus vitifoliae, on grapevine 372,	in UK 191 lindingeri, Planococcus (Pseudococcus)
dimethyl-)	1965, 5587 formulations of, xylene as solvent in	lindingeri, Pseudococcus (see Planococcus
Linaria dalmatica, Chrysomela rossia on 5506	3821	lindingeri)
inaria genistifolia, Chrysomela rossia on	fumigant activity of 669	Lindorus lophanthae
5506	in barley grain, residues of 5817	in Chile 4570
Lindane $((1\alpha,2\alpha,3\beta,4\alpha,5\alpha,6\beta)-1,2,3,4,5,6-$	in beetroot, residues of 6723	in Greece 3799
hexachlorocyclohexane)	in Carausius morosus, effects on	preying on
against 1022	neurosecretory system of 1703	Aspidiotus nerii, in Chile 4570
Agriotes spp., on potato 1022	in carrot, residues of 6723	Hemiberlesia lataniae, in Chile 4570

on tomato

Liriomyza bryoniae contd. in Netherlands 220, 3807, 3808

1874

```
Lindorus lophanthae contd.
                                                                                         Lipids contd.
    preying on contd.
                                                                                              in Antheraea mylitta, developmental
                                                                                                    changes in 1237
        Melanaspis glomerata, and biological
              control using, in Andhra Pradesh
                                                                                              in Antheraea mylitta pupal fat-body
               4498
                                                                                                    4470
                                                                                              in Aphidoidea 1815
in Attagenus unicolor cuticle,
developmental changes in 40
        Parlatoria oleae, in Greece 3799
linearis, Atomaria
linearis, Cossonus
linearis, Microlestes
                                                                                              in Bombyx mori diet, requirement for
linearis, Riptortus
lineatella, Anarsia
                                                                                              in Callosobruchus maculatus
                                                                                             in Callosobruchus macutatus
age-related changes in 4268
developmental changes in 727
in Choristoneura fumiferana cell
membranes, effects of Bacillus
thuringiensis on 6685
in Dysdercus koenigii neurosecretory
system, effects of insecticides on 5976
in fowl yolk sac, effects of malathion on
4161
Lineatin (see 2,9-Dioxatricyclo[3.3.1.0<sup>4,7</sup>]no-
nane, 3,3,7-trimethyl-)
lineatum, Graphosoma
lineatum, Trypodendron (see Xyloterus
      lineatus)
lineatus, Sitona
lineatus, Xyloterus (Trypodendron)
lineola, Rutela
                                                                                                    4161
lineola, Sphodromantis
lineola, Thymelicus
                                                                                              in grain mites 3755
                                                                                              in insects, digestion and absorption of, review 3742
lineolaris, Lygus
lineolata, Diatraea
                                                                                              in Lasioderma serricorne cuticle 5331
                                                                                              in Leptinotarsa decemlineata fat-body, changes in reserves of 5316
lineolatus, Adelphocoris
lingens, Paroxyna
                                                                                              in Locusta migratoria fat-body, during vitellogenesis 55
lingnanensis, Aphytis
lini, Dasineura
lini, Tyroborus
Linoleic acid (see 9,12-Octadecadienoic acid,
                                                                                              in oats, role in attracting Oscinella frit of
Linoletc acid (see 9,12-Octadecadienoic acid, (9Z,12Z)-)

Linolenic acid (see 9,12,15-Octadecatrienoic acid, (9Z,12Z,15Z)-)

Linseed (see Flax)

Linseed oil, diet component for, Plutella xylostella 809

Linum usitatissimum (see Flax)

Linum (see Lindane)
                                                                                              in Oxycarenus hyalinipennis feces
                                                                                              in Oxyrhachis tarandus feces in Phanerotoma flavitestacea,
                                                                                                                                                      3748
                                                                                                    developmental changes in
                                                                                             developmental changes in 6091
in Poekilocerus pictus fat-body, regulation
of metabolism of 5322
in Popillia japonica, Bacillus popilliae
causing depletion of reserves of 3685
in Samia cynthia larvae, metabolism
during moulting of 3254
in Sesamia cretica, effects of growth
regulators on 761
in Spodontera litura diet, utilisation of
Linvur (see Lindane)
Linyphia
Linyphia
in rice-fields, in Kerala 3939
preying on, Nilaparvata lugens 393
Linyphiidae
in forests, effects of acephate on 20
in rice-fields, in West Bengal 4507
prey selectivity in 6324
Lioadalia flavomaculata
                                                                                              in Spodoptera litura diet, utilisation of 52
                                                                 2073
                                                                                          in Zabrotes subfasciatus, age-related changes in 4268
Lipolexis scutellaris
hosts of 4979
in India 4979
    in wheat fields, effects of insecticides on 5998
    preying on
Aphididae, and biological control using,
in Chile 4174
and biological control
                                                                                          Lipoproteins
                                                                                              in Hydrous triangularis neurosecretory
system 2211
         grain aphids, and biological control using, in Chile 5998
                                                                                              in Locusta migratoria hemolymph, during flight 3251
Lipaphis erysimi
control of, insecticides for 1712, 1999,
2468, 2475
                                                                                              in Manduca sexta larval hemolymph,
                                                                                                    characterization of 3267
    descriptions of 4572
                                                                                               in Pimpla turionellae accessory glands
    development in, effects of food-plant on 4046
                                                                                                    3340
                                                                                          Liposcelis entomophilus, in Finland 3784
Lipostemmata humeralis
biology of 4486
descriptions of 4486
food-plant specificity in 4486
in Trinidad and Tobago 4486
on Salvinia auriculata, damage caused by
    holocyclic reproduction in 4572
in India 415, 1999, 2468, 2475, 3542,
          5469
    in Japan 1535, 4572, 4828 in USA 4046
    on Brassica campestris, varietal preferences of 415 on Brassica juncea in Delhi 2475
                                                                                              on Salvinia molesta, not feeding 4486
                                                                                          Lipostemmata major
biology of 4486
descriptions of 4486
food-plant specificity in 4486
in Trinidad and Tobago 4486
    varietal preferences of 415
on Eruca sativa, in Punjab 3542
on rape, in Delhi 1999, 2468
    on turnip
        in Japan
                           1535
                                                                                              on Salvinia auriculata, damage caused by
    resistance to 4046
overwintering in 4828
predators of, effects of insecticides on
1712
                                                                                              on Salvinia molesta, not feeding 4486
                                                                                          on Salvina molesta, not recaing 4480 Liquidambar formosana, Aonidiella taxus on, in Kyushu 1591 Liquorice (Glycyrrhiza glabra) Liquorice (stored roots) insect pests of, in Egypt 2607 Lasioderma serricorne in, development of
    preyed on by

Coccinella septempunctata, in Haryana

5469
         Hippodamia variegata, in Haryana
5469
                                                                                                    2608
    seasonal abundance of 1535
                                                                                          Liriodendron tulipifera, Ceratocapsus piceatus on 2573
liparidis, Apanteles
Lipase, triacylglycerol
in Antheraea mylitta pupal fat-body
                                                                                          on Cicer arietinum, in Mexico 1671
on cucurbits, in California 1488
Liriomyza bryoniae
control of
          4470
    in Solenopsis invicta mid-gut 6291
                                                                                              biological 3808
insecticides for
in Belgium 221
in Egypt 4357
    in Acheta domesticus, metabolism of
          3256
                                                                                                                                 220, 221
    in Acromyrmex octospinosus, reserves of
```

```
in Belgium 221
        in Netherlands 220, 3807, 3808
    parasitised by
        Dacnusa sibirica 201 in Netherlands 3807
         Opius pallipes, in Netherlands 3807
    taxonomy of
        characters distinguishing L. strigata and
               2049
        characters distinguishing L. trifolii and
              2049
Liriomyza cepae
biology of 1026
control of, insecticides for 1026
in Netherlands 1026
on leek 1026
Liriomyza congesta, in Egypt 4357
Liriomyza nietzkei
control of
    insecticides for 6546
threshold for 6546
in Switzerland 6546
    on onion, development of infestation with
Liriomyza pectoralis (see Lemurimyza pectoralis)
Liriomyza sativae
control of 229
   insecticide-fungicide mixtures for 4613
insecticides for 473, 1489
in USA 229, 473, 1489, 4613
   on Chrysanthemum
in Florida 4613
in Ohio 229
on cucumber, in Ohio 229
on squash, in California 1489
    on tomato
    in Florida 473
in Ohio 229
parasites of, effects of insecticides on 473
    parasities of, effects of insecticities of 47.

parasities d by

Chrysonotomyia formosa 4032

in Florida 473

Diglyphus intermedius, in Florida 473

Opius dimidiatus 4032
parasitism of, effects of host age on 4032
Liriomyza solani (see L. bryoniae)
Liriomyza strigata
                               6433
    in Yugoslavia
    taxonomy of
        characters distinguishing L. bryoniae
              and 2049
         characters distinguishing L. trifolii and
               2049
Liriomyza trifoliearum
control of, biological
in USA 5579
                                           5579
in USA 5579
parasites of, in USA 5579
Liriomyza trifolii
biology of 2049, 5136, 5415
control of 5136, 5415
descriptions of 2049
food-plants of 5136, 5415
in France 2049, 5136
in Italy 1059
    in Italy 1059
    in Kenya 5415
in Netherlands
    in Réunion 694
in Yugoslavia 6433
   in Yugosiavia 0433
on Chrysanthemum
in France 2049, 5136
in Italy 1059
on Gerbera, in France 2049
on Gerbera jamesonii
in France 5136
in Italy 1059
    taxonomy of
        characters distinguishing L. bryoniae
              and 2049
         characters distinguishing L. strigata and
Lisatex (see Protein hydrolysate)
Lissorhoptrus, on rice, in Brazil 6410
Lissorhoptrus brevirostris
biology of 3953
in Cuba 3953
    on rice, in Cuba
Lissorhoptrus oryzophilus
biology of 6378
```

iccorporture overconbilus contd	Times commence and t	To a set of the set
issorhoptrus oryzophilus contd.	Lixus camerunus contd.	Locusta migratoria contd.
control of, insecticides for 6378	parasitised by	inert particles in, phagocytosis of 4243
flight muscles in, changes in 2787	Apanteles maculitarsis, in Nigeria	insecticides in, electrophysiological
in Colombia 3940	2986	symptoms of 5344
in Japan 6378	Goryphus spp., in Nigeria 2986	juvenile hormones in
in USA 6378	Lizard, horned (see Phrynosoma cornutum)	developmental changes in 2218
on rice, in Japan 6378	lobatus, Phantacrus	identifying of 56
istroderes costirostris	Lobesia botrana	
		in eggs 5456
in Australia 1441	control of 5588	lindane in, effects on corpora cardiaca of
on crop plants, in Tasmania 1441	biological 5589, 5845	4262
istronotus bonariensis (see also Hyperodes	insecticides for 369, 4399, 5589	Malpighian tubules in 5337
	integrated 369	
bonariensis)		cation secretion by 2209
in Australia 5416	threshold for 369	fluid secretion by 2209
in sports turf, in Tasmania 5416	development in	moulting hormones in
	effects of humidity on 4347	developmental changes in 2218
itargus connexus, in stored products,	effects of temperature on 4347	
imported into USSR 1607		in eggs 1810
itchi chinensis	diurnal activity in 3990	regulation of synthesis of 760
	in Austria 1756	mouthparts in, sensilla on 31
Acrocercops cramerella on, in Bihar 408	in Bulgaria 369, 3990	nervous system in 2214, 4791
Argyroploce leucaspis on, effects of	in Egypt 4348, 4399	neurosecretory system in, effects of
fertilizers on 6497		
insect pests of, in Uttar Pradesh 2449	in Italy 5590	feeding on protein synthesis in 4221
	in Switzerland 5589	nymphal development in, effects of
Oligonychus mangiferus on, development	in USSR 5588	precocenes on 819
of 935	on grapevine	octopamine in
ithacodia carneola	assessing infestations of 5590	during moulting and adult developmen
in USA 571	forecasting infestations of 369	2215
in oak forests, in New Jersey 571	in Austria 1756	localisation of 4791
ithocolletis blancardella (see	in Crimea 5588	receptors for 3333
	in Switzerland 5589	on Acacia, feeding deterrents to 6271
Phyllonorycter blancardella)	seasonal abundance of 4348	
thocolletis insignitella (see Phyllonorycter		on sorghum, feeding deterrents to 5040
insignitellus)	traps for 5590	outbreak centres of 2755
ithocolletis platani (see Phyllonorycter	loca, Forcipata	outbreaks of 823
	Lochmaea suturalis	oviposition in 1256
platani)	biology of 279	
thocolletis populifoliella (see		parthenogenesis in 1256
Phyllonorycter populifoliella)	in France 279	Philanthus triangulus venom in, effects o
	in Netherlands 5772	muscles of 4766
thophane, on apple, in Nova Scotia 1977	in UK 279, 4721	post-prandial rest in, hormonal regulation
tomastix	on Calluna vulgaris	of 4226
parasitising	in France 279	
		precocenes in
Chrysodeixis chalcites, and biological	in Netherlands 5772	conversion to active form of 5343
control using, in New Zealand	on Erica cinerea, in France 279	effects of 1716
4823	on Erica scoparia, in France 279	proprioceptors in 4216
Noctuidae, in Western Australia 6356	on heather, in England 4721	uric acid in, effects of crowding on 325
tomastix truncatella	Locomotion, Carausius morosus 4837	vitellogenesis in, hormonal regulation of
in Brazil 5672	Locust	55
parasitising, Plusia spp., in Brazil 5672	biology of 3242	Locusta migratoria capito, ovaries in,
oralis, Blaesoxipha	control of	interpreting state of 170
tter (plant), Coleoptera in, in North	cost-effectiveness of 5914	Locusta migratoria cinerascens
Dakota 264	insecticides for 1673	hatching weight in, effects of implanted
toralis, Rhyparochromus	plant extracts for 637	corpora allata on 3831
toralis, Scaphoideus (see S. titanus)	in New South Wales 2161	morphology of
	in Soviet Central Asia 2755	
toralis, Spodoptera		effects of photoperiod on 1326
ura, Ceutorhynchus	in Thailand 2320	effects of temperature on 1326
ura, Prodenia (see Spodoptera litura)	movement detectors in, inhibited during	moulting hormones in
ura, Spodoptera (Prodenia)	fast eye movements 753	effects of carbon dioxide on 2220
us, Pachnaeus	on rice, in Western Australia 6421	not affecting coloration 2220
kiuensis, Papilio protenor	radar for studying flight in 4868	not affecting phase 2220
vestock, Bacillus thuringiensis in, not	research on, funded by UK 6002	relation of neurosecretory protein and
pathogenic 627	Locusta, adipokinetic hormone in, inhibiting	6071
vestock housing, pest control in 5230	protein synthesis 1793	oviposition in, effects of implanted
ia, Virachola	Locusta migratoria	corpora allata on 3831
idellus, Psammotettix	actograph for 3790	Locusta migratoria gallica, morphology of,
idipennis, Cyrtorhinus	adipokinetic hormone in	effects of carbon dioxide, humidity,
idipes, Nala	effects on cyclic AMP of 2713	photoperiod, and temperature on 1325
idus, Aphodius	role in metabolism during flight of	Locusta migratoria manilensis
xophaga	3251	biology of 2233
in Japan 4194	antennae in, sensilla on 821	physiology of, Chinese research on 2189
parasitising, Pyrgoides orphana, in	aspartate in, effects on motor activity of	Locusta migratoria migratoria
Tasmania 5774	50	hemolymph in, proteins in 1327
xophaga diatraeae	chromosomes in, age and chiasma	in USŠR 4956
	formation in 4964	
development in 6315		morphology of, effects of carbon dioxide,
embryonic development in, in artificial	eggs of, water relations of 2794	humidity, photoperiod, and
media 1200	enzymes in 733, 1790, 2193, 2209, 3258,	temperature on 1325
host development stage as affecting 6165	• 3259, 4248, 5343	Locusta migratoria migratorioides
in Cuba 3852	fecundity in, effects of carbon dioxide on	adipokinetic hormone in
intraspecific competition in 2356	1328	release during flight of 2712
parasitising	flight activity in 45, 2214, 3327	release during starvation of 2712
Diatraea saccharalis 293, 2356	flight in 4421, 4422	control of
Elasmopalpus lignosellus, in Cuba	flight muscles in 4248	growth regulators for 6287
		insecticides for 2315, 6363
3852	effects of denervation on enzymes in	
Galleria mellonella 293, 6315	733	corpora allata in, effects of precocenes on
Ostrinia nubilalis 6165	glutamate in, effects on motor activity of	1872
rearing of, techniques for 293, 1316	50	ecdysterone in, effects on spermatogonial
xophaga mediocris	glycerides in 4225	cell cycle of 6076
emergence in 1567	hearing directionality in 1329	ecoclimatological optimum of 5904
in USA 1567	hemolymph in	enzymes in 2212, 2315
parasitising, Rhyacionia frustrana, in	amino acids in 1211, 1212	flight in, substrate utilisation during
Georgia (USA) 1567	clotting of 6066	4228
kus camerunus	hormones in 2218	food-plants of 2321
		preferences among 3328
biology of 2986	proteins in 2218	
food-plants of 2986	in Australia 823, 3327, 4421, 4422	in Mali 2321, 3328
n Nigeria 2986	in Papua New Guinea 4421, 4422	insect growth regulators in,
on Vernonia, damage caused by 2986	in USSR 2755	morphogenetic effects of 5987

effects of grazing on 6436

Longitarsus manilensis contd.
on Vigna radiata, in Philippines 438 Loxostege sticticalis biology of 3156 Locusta migratoria migratorioides contd. biology of juvenile hormones in, biosynthesis of Longitarsus nigripennis, control of, insecticides for 2858 control of Malpighian tubules in, canavanine biological 626, 3156 Insecticides for 2858

Longitarsus parvulus
in Poland 3702
on flax, damage caused by 3702
longiventris, Homotropus
longula, Pheidole bicarinata

Lonicera, Pandemis heparana on, in British inhibiting fluid secretion in 4773 insecticides for 2504, 6585, 6700 in Bulgaria 2504 in Romania 6700 moulting hormones in, relation of neurosecretory protein and 6071 in USSR 626, 3187, 6585 in Yugoslavia 3156 on fennel, in Bulgaria 2504 nervous system in, peptides in 2700 neurosecretory system in 4966 nymphal development in 51 on lucerne, in Yugoslavia 3156 on Rosa, in USSR 6585 on Sorbus, in USSR 6585 ovarian development in, neurosecretory regulation of 757 Columbia 950 Lonicera quinquelocularis, Phyllonorycter oviposition in, neurosecretory regulation of 757 montanella on, in Pakistan 4478 Lonicera xylosteum, Rhagoletis cerasi on, oviposition by 6474

Looplure ((Z)-7-dodecenyl acetate) on sugar-beet on sugar-beet
forecasting infestations of 3187
in Yugoslavia 3156
on Tilia, in USSR 6585
parasitised by, Trichogramma spp.
loxtoni, Stethorus
lubrus, Geocoris
Lucanidae, in Switzerland 1832
lucens, Asaphes
Lucerne (Medicago sativa)
Acyrthosiphon kondoi on polymorphism in effects of humidity on 4963 effects of photoperiod on 4963 population dynamics of 2321 attractant for, Pseudoplusia includens proctolin in, effects on brain adenylate cyclase of 2212 reproductive system in, development of 2623 in Agrotis ipsilon, receptors for 2691 mating disrupter for Euxoa tristicula 686 2186 Trichoplusia ni 6698
with (Z)-5-decenyl acetate, attractant for,
Agrotis venerabilis 4716 starvation as affecting 51 wings in, expansion of 37 Locustana pardalina, control of, insecticides for 6363 lodosi, Cicada Acyrthosiphon kondoi on damage caused by 5 development of 930 with (Z)-5-decenyl acetate, and (Z)-7development of 930 effects of grazing on 5881 in Japan 1426 in Mississippi 4537 in New South Wales 1954 in New Zealand 2042, 5049, 5880 in Tasmania 1956, 5416 in Western Australia 4539 resistance to 3452, 3453 dodecen-1-ol, attractant for, Euxoa albipennis 4716
with (2)-7-dodecen-1-ol, attractant for, loewi, Scymnus logaea, Rhyacionia duplana Loganberry, Byturus tomentosus on, damage caused by 5055 Autographa californica 632 with (Z)-9-tetradecenyl acetate Agrotis ipsilon sex pheromone 2691 attractant for, Agrotis ipsilon 2691 lophanthae, Lindorus Lopidea, on Solidago, in New York 2855 Lopidea media in USA 2855 on Solidago in New York 2855 Lolium barley yellow dwarf virus in 3440 Heteronychus arator on, assessing infestations of 5884
Inopus rubriceps on, effects of selenates resistance to 3432, 3433 varietal preferences of 6434, 6437 A. pisum on damage caused by 357, 2307, 5879 in Chile 4174 in Japan 1426 in New Zealand 4584, 5049, 5880 nopus ruoriceps on, effects of scient on 1947
Oscinella frit on, damage caused by 1369, 3442
ryegrass mosaic virus in 3440
Lolium Italicum, Oscinella frit on, oviposition by 3801 in USA 253 on Solidago, in New York 2855 Loquat (Eriobotrya japonica) Platypleura kaempferi on, damage caused by 6478 Loranthus europaeus in Oklahoma 3343 in Ontario 4535, 4536 resistance to 3452, 3453 varietal preferences of 5 on Quercus petraea, in Czechoslovakia 4649 Lolium multiflorum Abacarus hystrix on, effects of cutting on Adelphocoris spp. on in Denmark 5578 3441 Psylla visci on, in Czechoslovakia 4649 in Denmark 55 in France 5578 Hyperodes bonariensis on, effects of Lord Howe Island Drosophila spp. in 5289 Tettigoniidae in 1841 sowing date on 1419 Lolium perenne A. lineolatus on, assessing infestations of Abacarus hystrix on, effects of cutting on 3441 loreyi, Acantholeucania (see Mythimna loreyi) loreyi, Leucania (see Mythimna loreyi) loreyi, Mythimna (Acantholeucania; afalfa mosaic virus in, aphid transmission Costelytra zealandica on, damage caused of 3005 of 3005
Agromyza frontella on feeding by 4901
fungi associated with 5050 in Delaware 4902 in Massachusetts 4884 in New York 4921 in USA 2927, 2928
Aiolopus thalassinus on, in Pakistan 233 alfalfa mosaic virus in, in New Zealand 5049 by 5872 Leucania)
loreyimima, Mythimna
Lorsban (see Chlorpyrifos)
lotrix, Utetheisa
Lotus (see also Nelumbo nucifera) pest control on, long-term consequences of 3439 lombardini, Tetranychus Lonchaea zetterstedti in France 5186 in France 5186 in Scolytid tunnels, in France 5186 lonchaeoides, Earomyia Lonchoptera lutea food of 2887 in UK 2887 Lotus insect pests of, in France 3002 pest control on, insecticides for 5049 Lotus corniculatus Spodoptera eridania on Anticarsia gemmatalis on, in Colombia in UK 2887
in grain fields, in England 2887
population dynamics of 2887
longicauda, Apanteles
longicaudatus, Biosteres (Opius)
longicaudatus, Opius (see Biosteres
longicaudatus) effects of cyanogenic glycosides on 6522 6239 Aphis craccivora on, in Japan 1426 arthropod pests of, in Romania 2849 feeding by 2923 Aulacorthum solani on, in New Zealand Acrobasis nuxvorella in, on pecan 373 5049 Anthonomus grandis in, on cotton 2517 Austroasca alfalfae on, in Queensland Anticarsia gemmatalis in, on soyabean 3447 longicollis, Odoiporus longicornis, Betulaphis longicornis, Diabrotica A. viridigrisea on 2416 in Queensland 3447 5665 Asynapta spp. in, on Pinus 5776 Colaspis spp. in 4310 Culex tarsalis in 678 Baris lepidii on, in Ohio 6435 bendiocarb in, not toxic 5576 longicornis, Diabrotica longicornis, Eucera longicornis, Paratrechina longicornis, Pergamasus longicornis, Scolothrips longinoda, Oecophylla longior, Tyrophagus longipennis, Anagyrus longipes, Anoplolepis longipilus, Typhlodromus longiseta, Proformica longiseta, Proformica longisoniosa. Oxyones Dendroctonus spp. in, on Pinus 5191 D. frontalis in, on Pinus 1566 Dioryctria spp. in, on Pinus 5776 Eotetranychus hicoriae in, on pecan 5062 Cerotoma trifurcata on, development of 6190 6190
Colaspis louisianae on, in Louisiana 4
Curculionidae on, in Kansas 1835
Empoasca fabae on
assessing infestations of 1429, 2413
damage caused by 4907, 5580
distribution pattern of 2413
effects of harvesting on 1953
oviposition by 2925 Heliothis spp. in, on cotton 2517 Lygus lineolaris in, on cotton 2517 Nezara viridula in bacteria in 4037 fungi in 4037 longispinosa, Oxyopes longispinosus, Amblyseius (see Neoseiulus Euschistus conspersus on, in California Pentatomidae in, in soyabean 4586 Psallus seriatus in, on cotton 2517 Resseliella spp. in, on Pinus 5776 longispinosus, Neoseiulus (Amblyseius) longispinosus, Neoseiulus (Amblyseius) longispinus, Pseudococcus longissima, Brontispa Heliothis punctigera on, in New South Wales 4608 Solenopsis invicta in, in pastures 2324 louisianae, Colaspis louisianica, Niesthrea lounsburyi, Metaphycus Loxosoleles spinulosa Hypera brunneipennis on, models of 353 Longitarsus jacobaeae, on Senecio jacobaea, and biological control using, in Prince Edward Island 2792 Longitarsus manilensis in Philippines 438 H. postica on assessing infestations of damage caused by 5580 effects of cutting date on dieldrin in, toxicity of in South Africa 6328 6328

loject Index		1023
cerne contd.	Lucerne fields contd.	Lycia hirtaria contd.
Hypera postica on contd.	predatory insects in, in Iraq 3451	control of 1452
in Colorado 1428, 6243	Telenomus podisi in, in Kentucky 6200	biological 2957, 5845
in Iraq 3451	Lucerne-leaf powder, diet component for,	insecticides for 2957
in Kentucky 4540 in Missouri 352	Ostrinia nubilalis 812	descriptions of 1452
in New York 355, 1955	Lucerne mosaic virus (see Alfalfa mosaic virus)	in Bulgaria 1452, 1454 in USSR 2957
in Pennsylvania 356	Lucerne transient streak virus	on apple
in Romania 2414	control of, vector control for 5049	in Bulgaria 1454
in USA 4538	in, lucerne, in New Zealand 5049	in Crimea 2957
in Virginia 4927	lucifugus, Reticulitermes	seasonal abundance of 1454
resistance to 6138	Lucilia cuprina, DDT-pyrethroids in,	lycimnia, Coccophagus
insect pests of assessing infestations of 3449	neurophysiological effects of 659 Lucilia sericata	lycopersicella, Keiferia
in France 3002	aspartate in, not affecting motor activity	Lycopersici, Aculops Lycopersicon esculentum (see Tomato)
resistance to 1134	50	Lycopersicon hirsutum
insecticides in, toxicity of 6700	glutamate in, effects on motor activity of	insecticidal activity of extracts of 4048
interplanted with soyabean 459	50	Manduca sexta on, resistance to 4048
Laodelphax striatella on, in Turkestan	hemolymph in, amino acids in 1211,	2-tridecanone in, insecticidal activity of
2346 leaf miners on, in Yugoslavia 6433	nucleic acids in 723	5115
legume yellows virus in, infectivity of	lucorum, Carcelia	Lycoriella auripila biology of 5091
3003	lucorum, Trichiosoma	control of
Loxostege sticticalis on	ludeni, Tetranychus	growth regulators for 4571
in Romania 6700	ludens, Anastrepha	insecticides for 4571
in Yugoslavia 3156	Luffa acutangula	in UK 5091
lucerne transient streak virus in, in New	Diacrisia obliqua on, development of	on mushroom, in UK 5091
Zealand 5049 Lygus spp. on, in Mexico 2297	1820 Diaphania indias an development of	Lycoriella mali
Megachile rotundata on	Diaphania indica on, development of 1499	attractants for 5648
in Washington 354	Leptoglossus australis on, feeding by	growth regulators for 4016
pollination by 1952, 2924	2242	insecticides for 4016
Megoura crassicauda on, in Japan 1426	Spodoptera litura on, lipid utilisation by	sex pheromone of 5648
Melanoplus spp. on, in USA 820	52	Lycosa
Nezara viridula on, in Egypt 4062 Noctuidae on, in Chile 4174	Luffa aegyptiaca, Leptoglossus australis on, feeding by 2242	in rice-fields, in Kerala 3939 preying on, <i>Nilaparvata lugens</i> 3939
Oligonychus indicus on, in Haryana 267	lugens, Athalia	Lycosa pseudoannulata
Otiorhynchus ligustici on, assessing	lugens, Nilaparvata	in Thailand 6411
infestations of 4945	lugubris, Carpophilus	in rice-fields, effects of insecticides on
Pentatomidae on, in Kentucky 2415	lugubris, Formica	6411
permethrin in, not toxic 5576	lugubrosa, Lambdina fiscellaria	preying on, Nilaparvata lugens, and
pest control on 2849 biological 1646, 5951	lunata, Goryna borelii lunata, Stomorhina	biological control using, in Tamil Nadu 341
effects on Apis mellifera of 678	lundii, Acromyrmex	Lycosidae
in USSR 351	Luperomorpha bombayensis	in rice-fields, in West Bengal 4507
insecticides for 3002, 5048	control of, insecticides for 3032	in wheat fields, in Saskatchewan 299
spray equipment for 6244	descriptions of 3032	Lyctocoris campestris, in Hungary 3314
systems analysis applied to 2114	in India 3032	Lyctus brunneus
pest management on, model 6137	on eggplant, damage caused by 3032 Luperus, in Italy 4103	control of, insecticides for 675 rearing of, diets for 3321
Philaenus spumarius on, damage caused by 5580	Luperus flavipes, in Italy 4103	Lydelia thompsoni
pollination of, by insects 695	Luperus leonardii	in France 880
pollinators of	sp. nov., description of 4103	parasitising, Ostrinia nubilalis, in France
effects of insecticides on 5048	in Italy 4103	880
predators of 354	on hazel, in Italy 4103	Lygaeidae
Sitona spp. on, evaluating feeding preferences of 6438	on Ulmus minor, in Italy 4103 Lupinus	chromosomes in 5352 in Galápagos Islands 6127
S. humeralis on	Aphididae on, in Western Australia 4533	in Queensland 1245
damage caused by 3448	Halotydeus destructor on, in Western	in vineyards, in Pennsylvania 5059
in France 3446, 3981	Australia 4533	on sunflower, in Bulgaria 6558
rearing of 4324	Heliothis punctigera on, in Western	Lygaeinae, chromosomes in 5352
S. Ineatus on	Australia 4533 insect pests of, in France 3002	Lygaeus kalmii aggregation pheromone in 4237
damage caused by 3454 development of 4579	pest control on 4533	correcting behaviour in 84
in USA 4580	insecticides for 3002	growth regulators in, effects of 1163
S. puncticollis on, in France 3981	subterranean clover red leaf virus in, in	Lygocerus
Sphecidae on, in Uzbekistan 3337	New Zealand 1504	parasitising
Spodoptera eridania on, feeding by 2923	lurida, Scotinophara luridata, Scopula	Dasineura tetensi, in USSR 3456 Trioxys indicus 5108
S. exigua on, in Mexico 2297 S. littoralis on, in Israel 1742	lutea, Encarsia	Lygocoris communis
Subcoccinella vigintiquattuorpunctata on	lutea, Lonchoptera	biology of 960
1431	lutea, Oligochrysa	in Canada 960
Therioaphis trifolii on	lutea, Pleroneura	on apple, in Quebec 960
damage caused by 1954, 2307 development of 930	lutea, Trichogrammatoidea	taxonomy of, characters distinguishing
development of 930	luteola, Pyrrhalta (see Xanthogaleruca	Lygus lineolaris and 960 Lygus
in Mexico 2296 in New South Wales 4541	luteola) luteola, Xanthogaleruca (Pyrrhalta)	control of, insecticides for 2297, 2462,
in Oklahoma 3343	Luteolin (see 4H-1-Benzopyran-4-one, 2-	4383
in Western Australia 4539	(3,4-dihydroxyphenyl)-5,7-dihydroxy-)	dispersal of 1274
resistance to 3452, 3453	lutescens, Ceratocapsus	in strawberry fields, in Sweden 5584
varietal preferences of 6437	lutescens, Euxoa	insecticide resistance in, detecting and
Toya propinqua on, in Turkestan 2346	lutescens, Malacosoma californicum luteum, Spilosoma	measuring of 3710 on cotton
Urophora quadrifasciata on, in Turkey 1311	luteus, Ceratocapsus	forecasting infestations of 1273
icerne fields	lutosus, Hoplopteridius	migration from safflower of 2298
Bathyplectes curculionis in, effects of	lutulentus, Smicronyx	varietal preferences of 2521
grazing on 6436	Lyase, arginosuccinate, in Samia cynthia fat-	on lucerne, in Mexico 2297
Chrysopa carnea in, in California 250	body, not found 4472	on potato, damage caused by 3539
Nabis tasmanicus in, in Australia 6687 parasitic insects in	lybica, Empoasca (see Jacobiasca lybica) lybica, Jacobiasca (Empoasca)	on safflower, migration to cotton of 229 on Solidago, in New York 2855
effect of insecticides on 356	Lycaenidae, in Spain 5412	Lygus disponsi
in Iraq 3451	Lycia hirtaria	auxins in, metabolism of 737
sampling of 3449	biology of 1452, 2957	IAA in, metabolism of 1217

Lygus disponsi contd.	Lymantria dispar contd.	Lymantria dispar contd.
indole compounds in, metabolism of 737	in Japan 2569, 4107 in Morocco 514, 3068, 5288	parasitised by Anastatus japonicus 1564
Lygus hesperus in USA 1550	in Poland 3592, 3982	A. kashmirensis 1564
insecticide resistance in, detecting and	in Portugal 4652	Apanteles melanoscelus 570, 1564,
measuring of 3710	in USA 518, 523, 553, 568, 571, 577,	4926, 4940
on cotton	1072, 1103, 1589, 2566, 3088, 3100,	Blepharipa pratensis 1344, 2777
assessing infestations of 1550	3293, 3576, 3591, 4913, 5189, 5194,	in Pennsylvania 2566
damage caused by 2512, 3549	5278, 5284 in USSR 1556, 1587, 2946, 3098, 5183,	Brachymeria intermedia 1344, 2812,
interactions of carbohydrate balance and 2040	6585, 6608	4910, 5189 Gryon hungaricus, in Morocco 5288
Lygus lineolaris	in Yugoslavia 5792, 5793, 5863, 5964	Ooencyrtus kuwanai
biology of 960	intersexuality in 4220	in Morocco 514
control of	Metarhizium anisopliae in, effects of	in Pennsylvania 523
growth regulators for 3228 insecticides for 364, 366, 2528	6682 Microsporidia in, in Portugal 4652	Parasetigena agilis, in Connecticut 518
spray equipment for 6244	Nosema spp. in, in Yugoslavia 5863	P. silvestris, in Pennsylvania 2566
timing of 366	N. bombycis in, not pathogenic 5241	Pimpla turionellae 5189 Rogas indiscretus 73
in Canada 364, 960	nuclear polyhedrosis virus in	parasitism of
in USA 366, 1453, 2517, 2528, 2532, 2855, 4558, 4600, 5059, 6244	antigens of 3692 control during rearing of 5795	effects of population quality on 5189
on apple	detection by parasites of 4940	variation in 523
assessing infestations of 1453	DNA in 5233	polyhedrosis virus in, in Yugoslavia 5863
in Quebec 960	effects of diet on production of 4935	population dynamics of 578
on avocado, in Florida 4558	effects on hemolymph bactericidal activity of 1642	bibliography 540 population quality in 578
on cotton effects of herbicides on 4600	environmental persistence of 1072	predators of
in Mississippi 2528	examining of batch preparations of	in Morocco 3068
varietal preferences of 2517, 2532	1130	parasitism of 2569
on grapevine, in Pennsylvania 5059	formulations of 1643 in Portugal 4652	predation of 2569
on lucerne, in Michigan 6244 on Solidago, in New York 2855	not affecting birds 2571, 4913	preyed on by Dinorhynchus dybowskyi, in Hokkaido
on strawberry	not affecting predatory birds 615	2569
in Ohio 366	passage through gut of vertebrate	Parus atricapillus 615
in Quebec 364	predators of 1568	Passer domesticus 615
orientation in, role of vision in 1453 taxonomy of, characters distinguishing	properties of 3693 on <i>Acer rubrum</i> , development of 5755	rearing of, techniques for 4886, 5795 Rickettsiaceae in, in Yugoslavia 5863
Lygocoris communis and 960	on apple, feeding by 948	sex pheromone of
traps for 1453	on Betula populifolia	dispensers for 1676
Lygus rugulipennis	development of 5755	responses to enantiomers of 780
in Bulgaria 6558 on sunflower, damage caused by 6558	effects of defoliation on 6225 on Fagus grandifolia, development of	responses to isomers of 5278 socio-economic impact of 577
Lymantria dispar	5755	traps for 6608
Bacillus thuringiensis in	on forest trees	variability in 6040
effects of diet on susceptibility to 4653	assessing infestations of 577	Lymantria dispar dispar
in Portugal 4652	damage caused by 1103	sexual dimorphism in 3732
bacteria in in Yugoslavia 5863	predicting of 553 forecasting infestations of 577	variability in 6040 Lymantria dispar hokkaidoensis
interactions between 2108	hazard ratings for 568	sexual dimorphism in 3732
bacterial chitinase in, degradation of	in USA 5284	variability in 6040
peritrophic membrane by 4893, 4895	on fruit trees, in USSR 2946	Lymantria dispar japonica
biology of 1587 Chilo iridescent virus in, cell fusion	on ornamental shrubs, in USSR 1556 on plum, feeding by 948	sexual dimorphism in 3732 variability in 6040
caused by 5232	on Quercus	Lymantria japonica (see L. dispar japonica)
chitin in, inhibitors of synthesis of 4882	in New Jersey 571, 3100	Lymantria monacha
colonization by, models of 537 control of	on Moldavia 3098	attractants for 4637
antifeedants for 577	on Quercus alba, development of 5755 on Quercus borealis, in Yugoslavia 5793	control of, biological 1622, 2061 in Austria 4637
biological 577, 1072, 1564, 1643, 2616,	on Quercus prinus, in West Virginia	in Netherlands 5772
3098, 3100, 3293, 3825, 4653, 4893,	5194	in Sweden 5747
4895, 4913, 4940	on Quercus rubra, development of 5755	in UK 2060
growth regulators for 1560, 4642, 4882, 4897	on Quercus velutina effects of defoliation on 6225	in West Germany 2061 melanism in 2060
insecticide-pathogen mixtures for 5847	in Connecticut 518	nuclear polyhedrosis virus in
insecticides for 577, 1587, 3100, 3982	on Rosa, in USSR 6585	activation of 1641
making decisions about 3088 mating disruption for 577, 1589, 3591,	on street trees, in Ukraine 5183 on Tilia	pathogenicity of 1622 properties of 3693
6057	in Poland 3592	on Fagus sylvatica, in Netherlands 5772
models of 537	in USSR 6585	on Larix leptolepis, in Netherlands 5772
sterile-insect release for 577	Paecilomyces fumosoroseus in, effects of	on Pinus, in Sweden 5747
timing of 948	6682	on Quercus, in England 2060
cytoplasmic polyhedrosis virus in, in Austria 4089	parasites of attacking other parasites 1564	preyed on by, Formica polyctena, in Sweden 5747
descriptions of 1587	defence mechanisms against	sex attraction in
development in, under laboratory	hyperparasites of 4942	effects of biophysical fields on 4637
conditions 2776	effects of Bacillus thuringiensis on	effects of weather on 4637
dispersal of 578, 1275, 1283, 3576 eggs of, surface-sterilants for 5795	3100 effects of carbaryl on 3100	Lymantria obfuscata in India 4107
enzymes in 1642, 4909	effects of diflubenzuron on 4642	parasitised by
food-plants of 1587	effects of humidity on 3293	Apanteles flavicoxis, in India 4107
preferences among 4632	effects of insecticides on 4926	A. indiensis, in India 4107
hemolymph in, bactericidal activity of 1642	effects of temperature on 3293 in Austria 4089	lymantriae, Apanteles lymantriae, Rogas
hyperparasites of	in France 4642	Lymantriidae Lymantriidae
effects of humidity on 3293	in Morocco 3068	in British Isles 163
effects of temperature on 3293	in Poland 3592	in Nearctic region 5284
in Yugoslavia 5792	in Yugoslavia 5792 interactions between 1344	on rice, in India 1930 taxonomy of 5284
hyperparasitised by Anastatus japonicus 1564	keys to 4107	Lyonetia prunifoliella malinella
A. kashmirensis 1564	not affected by sex pheromone 523	biology of 2964
in Austria 4089	predation of 2566	in Japan 2964
in France 4642 in India 4107	rearing of 2777 recognition of diseased hosts by 4940	on apple, in Honshu 2964

us-

Macrosiphum euphorbiae contd.

Merobruchus spp. on 1584	in USA 2825	on potato
Stator spp. on 1584	parasitising, Epiblema scudderiana, in	distribution pattern of 2026
Lysine	Pennsylvania 2825	in France 5693
in Hypena iconicalis 2225	Macrocentrus philippinensis	in Scotland 2104
in Spodoptera littoralis, effects of	in Philippines 904	on raspberry, in New Zealand 367
insecticides on 4362	parasitising, Cnaphalocrocis medinalis, in	on soyabean, in Illinois 6188
in Spodoptera littoralis hemolymph	Philippines 904	on walnut, in Italy 5592
effects of DDT on 3818	Macrodactylus subspinosus	parasitised by, Aphidiidae, in France
effects of nuclear polyhedrosis virus on	control of, insecticides for 3457	5693
6686	in USA 3457	population dynamics of 2026
	on grapevine, in Ohio 3457	potato leaf roll virus in
Lysine, No-(aminoiminomethyl)-	Macromischoides aculeatus (see	detecting of 3023
Anacridium melanorhodon feeding not	Tetramorium aculeatum)	transmission of 2104
inhibited by 6271	macrophthalma, Diopsis	preyed on by, Aphidoletes aphidimyza
antifeedant for, Locusta migratoria 6271	macropilis, Phytoseiulus	5953
in Acacia 6271	macrops, Erebus (see Eupatula macrops)	soyabean mosaic virus in, transmission
ysiphlebus, in maize fields, in Mexico	macrops, Erebus (see Eupatula macrops) macrops, Eupatula (Erebus)	6188
1653	Macroptilium atropurpureum	Macrosiphum rosae
ysiphlebus ambiguus	Acyrthosiphon kondoi on, development of	in Finland 5953
in Greece 6302	930	in India 2820
parasitising, Toxoptera aurantii, in Greece	Leptopiinae on, in Queensland 2482	in West Germany 3301
6302	Therioaphis trifolii on, development of	on rose, assessing infestations of 3301
taxonomy of	930	parasitised by, Aphidius rosae, in India
Lysiphlebus arvicola as synonym of	Macroptilium lathyroides, Anticarsia	2820
713	gemmatalis on, in Colombia 6522	predators of, in India 2820
L. confusus misidentified as 713	Macrosiphini 0522	preyed on by, Aphidoletes aphidimyza
ysiphlebus arvicola, taxonomy of, synonym	in Sikkim 3777	5953
of L. ambiguus 713	in West Bengal 3777	Macrosiphum rosaeiformis (see Sitobion
ysiphlebus confusus	Macrosiphoniella, taxonomy of, hemolymph	rosaciformis)
sp. nov., description of 713	proteins as characters for 1845	Macrosiphum subarcticum
taxonomy of, misidentified as L. ambiguus	Macrosiphoniella absinthii	sp. nov., description of 144
713	biology of 3875	in Canada 144
ysiphlebus delhiensis	descriptions of 3876	on Epilobium angustifolium, in Manito
in India 290	food-plants of 3875	144
parasitising, Melanaphis sacchari, in Uttar	in Poland 3875, 3876	Macrosiphum valerianae, taxonomy of,
Pradesh 290	on Artemisia, in Poland 3875, 3876	nomen dubium 144
ysiphlebus fabarum	Macrosiphoniella artemisiae	Macrosteles fascifrons
in Greece 6302	biology of 3875	aster yellows
in Mongolia 3348	descriptions of 3876	causal agent in
parasitising	food-plants of 3875	not pathogenic 5835
Aphis gossypii, in Greece 6302	in Poland 3875, 3876	transmission of 5835, 6228
Toxoptera aurantii, in Greece 6302	in USSR 801	control of, insecticides for 6228
ysiphlebus testaceipes	on Artemisia, in Poland 3875, 3876	development in, effects of temperature
in Italy 3492	Macrosiphoniella oblonga	6229
in USA 2917	biology of 3875	in USA 347, 6228
parasites of, in Texas 2917	descriptions of 3876	in grassland
parasitising	food-plants of 3875	effects of fertilizers on 347
Aphis gossypii, in Italy 3492	in Poland 3875, 3876	effects of insecticides on 347
Rhopalosiphum maidis, in Texas 2917	on Artemisia, in Poland 3875, 3876	mycetome symbionts in 1302
Schizaphis graminum, in Texas 2917	Macrosiphoniella sanborni	oat blue dwarf virus in
Toxoptera aurantii, in Italy 3492	control of	not pathogenic 5835
ysozyme	biological 1630, 3058	transmission of 5835
in Anthonomus grandis eggs 5321	evaluating of 5424	on carrot, in Wisconsin 6228
in Lymantria dispar 1642	insecticide-fungicide mixtures for 4613	Macrosteles laevis
in Spodoptera eridania hemolymph 42	in UK 3058	in Poland 3036
in Streptococcus faecalis, preventing	in USA 4613	in UK 3434
infection of host by other bacteria	on Chrysanthemum	in grassland, effects of cutting on 343
4134	in England 3058	on sunflower, in Poland 3036
thri, Altica	in Florida 4613	Macrosteles sexnotatus
ythrum, Callirhopalus bifasciatus on 5135	Macrosiphum, barley yellow dwarf virus in,	descriptions of 5304
-fuscum, Chrysophtharta	transmission of 3440	in UK 3434, 5304
aai, Amblyseius	Macrosiphum avenae (see Sitobion avenae)	in grassland, effects of cutting on 343
facalla moncusalis (see Lamida	Macrosiphum avenae akebiae (see Sitobion	on oats, in England 5304
moncusalis)	akebiae)	reproductive system in 5304
facaroni, Plodia interpunctella in, in USSR	Macrosinhum eunhorhiae	Macrotermes, on Pinus, in Zambia 5165
3128	barley yellow dwarf virus in, transmission	Macrotermes bellicosus
acdunnoughii, Artogeia napi	of 3440	moulting hormones in 844
acdunnoughii, Pieris napi (see Artogeia	black raspberry necrosis virus in,	predator mandibular-gland secretions n
napi macdunnoughii)	transmission of 367	repelling 1876
face oil, in Tyrophagus putrescentiae diet,	control of	Macrotermes gilvus, attraction of, to fung
effects on development of 6172	biological 2032	invaded wood 5226
acfarlanei, Tetranychus	insecticides for 1486, 2032, 5925	Macrotermes natalensis
achaeralis, Pyrausta	threshold for 1486	digestive enzymes in 1354
achaon, Papilio	Entomophthora spp. in, in France 5693	in South Africa 1354
fachilus odoratissima, Cricula trifenestrata	in Finland 5953	Macrotermes subhyalinus
on, in Meghalaya 4624	in France 2026, 2032, 5693	in Nigeria 4524
acleayi, Gonocephalum	in Irish Republic 5925	in grassland, litter removal by 4524
facremphytus testaceus, taxonomy of,	in Italy 3492, 5592	moulting hormones in 844
Macremphytus varianus as synonym of	in Netherlands 3567	Macrotermitinae
1178	in New Zealand 367	evolution of 2843
facremphytus varianus, taxonomy of,	in UK 2104	preyed on by, Megaponera foetens, in
synonym of M. testaceus 1178	in USA 1486, 6188	Nigeria 2329
acrinus, Perkinsiella	iris mild mosaic virus in, transmission of	macrurus, Megarhyssa
facrocentrinae, venom apparatus in 2672	3567	maculata, Coleomegilla
facrocentrus ancylivorus	iris mild yellow mosaic virus in,	maculata, Desiantha
insecticides in, toxicity of 3486	transmission of 3567	maculata, Nephila
parasitising, Cydia molesta, and biological	iris severe mosaic virus in, transmission of	maculata, Portevinia
control using, in Ontario 3486	3567	maculata, Therioaphis trifolii
1acrocentrus iridescens	on Citrus, in Italy 3492	maculatum, Piesma
in Canada 1593	on eggplant, in France 2032	maculatus, Callosobruchus
parasitising, Choristoneura conflictana, in	on Iris hollandica, in Netherlands 3567	maculatus, Dermestes
Alberta 1593	on lettuce, in California 1486	maculatus, Laccotrephes

Macrocentrus pallisteri

maculicornis, Aphytis	Mahanarya posticata contd.	Maize contd.
maculifrons, Vespula	parasites of, effects of egg diapause on	Diabrotica virgifera on contd.
maculifrons, Zygina	1375	effects of sowing date on 5540
maculipennis, Goryphus mesoxanthus	parasitised by, Acmopolynema hervali, in	forecasting infestations of 3892
maculipennis, Megastigmus	Brazil 1375	in Ohio 312
maculipennis, Microplitis	Mahasena corbetti	in Texas 5539
maculipennis, Plutella (see P. xylostella)	control of, biological 3698	Diacrisia obliqua on, development of
maculitarsis, Apanteles	in Solomon Islands 3698	1820
maculiventris. Podisus	on oil palm, in Solomon Islands 3698	Diatraea spp. on, varietal preferences of
maculosus, Myllocerus undecimpustulatus	parasitised by, Telenomus spp., in	2304
madagassa, Sticholotis	Solomon Islands 3698	D. grandiosella on
madecassus, Steneotarsonemus (see S.	Mahogany	assessing infestations of 6160
spinki)	Platypodidae on, in Philippines 5184	development of 5535
Madeira Islands, Chalcidoidea in 3778	Scolytidae on, in Philippines 5184	effects of plant part on 6161
maderae, Leucophaea	maidis. Dalbulus	model 6159
madrasensis, Dexiothrips (Malacothrips)	maidis, Peregrinus	in Kansas 305
madrasensis, Malacothrips (see Dexiothrips	maidis, Rhopalosiphum	resistance to, screening for 3891
madrasensis)	Maine	D. saccharalis on, in Texas 1914, 3358
madurae, Sthenias	aquatic insects in 3315	diazinon in, metabolism of 1156
Madurasia obscurella	Choristoneura fumiferana in	dieldrin in, not translocated 2145
in India 440, 453	natural enemies of 6596	Elachiptera cornuta on, in Poland 2893
on Vigna mungo, damage caused by 453	on Abies 5748	Elasmopalpus lignosellus on, effects of
on Vigna radiata	Leucoma salicis in, on Populus 1069,	tillage systems on 1387
damage caused by 453	1093	Elateridae on, in West Germany 2891
in India 440	Myzus persicae in, on potato 4943	Eldana saccharina on, damage caused by
on Vigna unguiculata, damage caused by	Paradiplosis tumifex in, natural enemies of	3888
453	1099	etrimfos in, not degraded 1156
maenas, Carcinus	Pikonema alaskensis in, natural enemies of	formothion in, residues of 314
magdalensis, Scaphytopius	5211	Frankliniella tenuicornis on, in China
Magicicada cassinii	Pissodes strobi in, on Pinus 1101, 5162	315
auditory responses in 4250	mainensis, Platygaster	Glischrochilus quadrisignatus on, rearing
courtship in 2244	Maize (Zea mays)	of 3792
faulty eclosion in 4635	Acigona infusella on, not surviving 5507	Graphognathus peregrinus on, oviposition
in USA 2244, 4635	Agriotes spp. on	by 3760
song of 4250	damage caused by 2363	Haplothrips aculeatus on, in China 315
Magicicada septendecim	in UK 218	Heliothis spp. on, in Swaziland 1036
auditory responses in 4250	in West Germany 1926	H. armigera on
biology of 5453	Agrotis spp. on, in Zambia 1052	assessing infestations of 3378
courtship in 2244	A. ipsilon on	in Bulgaria 314
in USA 2244, 5453	damage caused by 876, 1923	in India 3418
song of 4250	in Illinois 307	in New Zealand 5889
Magicicada septendecula	in Indiana 3379	in Tadzhikistan 5714
auditory responses in 4250	in Maryland 4900	H. zea on
song of 4250	Aiolopus thalassinus on, in Pakistan 232	in Texas 65
Magicicada tredecassini	aldrin in, not translocated 2145	resistance to 304, 1397
control of, insecticides for 3470	Anaphothrips obscurus on, in China 315	varietal preferences of 3885
in USA 3470	Aphidoidea on, effects of herbicides on	insect pests of
on apple, in Indiana 3470	5028	effects of discing on 857
Magicicada tredecim	arthropod pests of	effects of monoculture on 6371
control of, insecticides for 3470	in Canada 2792	effects of sowing date on 2368
in USA 3470	in Egypt 3371	in England 1757
on apple, in Indiana 3470	in France 6368	in Libya 2368
Magicicada tredecula	in Gambia 4182	in Quebec 269
control of, insecticides for 3470	in Indiana 2850	in Sarawak 2651
in USA 3470	in Mexico 881	in sub-Saharan Africa 6369
on apple, in Indiana 3470	in Romania 2849	in Upper Volta 693
magister, Cancer	in Swaziland 2160	resistance to 1134
magnanima, Homona	in West Germany 2162	breeding for 6366
Magnesium	resistance to 4180	insecticides in, toxicity of 6700
in Agrotis segetum, accumulation of 38	Busseola fusca on, damage caused by	Laodelphax striatella on, in Turkestan
in Metopolophium dirhodum, and in oats	3888, 4720	2346
874	Caenoblissus pilosus on, in Papua New	maize hoja blanca virus in, in Venezuela
in Pinus sylvestris, utilisation by	Guinea 903	2892
Neodiprion sertifer of 5756	carbofuran in persistence of 2896	maize rayado fino virus in, in tropical
ion (Mg ²⁺), in Locusta migratoria,		maize stripe virus in, in Florida 2892
dependence of adenosine triphosphatase activity on 2193	uptake and translocation of 878 Carpophilus lugubris on, in Maryland	maysin in, insect growth regulator activity
Magnesium chloride, against, Coptotermes	4899	of 5029
formosanus, in wood 1356	cereal chlorotic mottle virus in, in	Melanoplus spp. on, in USA 820
Magnetic field, Heterotermes indicola	Australia 867	Melanotus spp. on, in USA 1396
feeding as affected by 5491	Chilo partellus on	mephosfolan in, persistence of 2896
magnicornis, Atractotomus	damage caused by 2894	Mythimna separata on, in Rajasthan
magnifica, Eacles	development of 5020	6377
Magnolia soulangeana, phenology of,	in Bihar 2365	M. unipuncta on, in Maryland 4900
correlation of Agromyza frontella	in Rajasthan 1924	Ochropleura herculea on, in Bihar 3377
development and 4884	resistance to, evaluation of 1925	Oligonychus indicus on, in Haryana 267
Mahanarya	varietal preferences of 2895	O. pratensis on, effects of irrigation on
control of, biological 289	Colaspis spp. on, in Mexico 1651	308
on sugar-cane, in Brazil 289	C. louisianae on, in Louisiana 4310	Oscinella spp. on, forecasting infestations
taxonomy of 16	Cyrtacanthacris guttulosa on, in New	of 2880
Mahanarva fimbriolata		
Mananarya imidridiata		O. frit on
	South Wales 822	
control of, integrated 1916 in Brazil 1916	South Wales 822 Diabrotica spp. on	O. frit on damage caused by 1369, 1926, 2363 forecasting infestations of 5963
control of, integrated 1916 in Brazil 1916	South Wales 822 Diabrotica spp. on in Mexico 1651	damage caused by 1369, 1926, 2363 forecasting infestations of 5963
control of, integrated 1916	South Wales 822 Diabrotica spp. on in Mexico 1651 resistance to 6254	damage caused by 1369, 1926, 2363
control of, integrated 1916 in Brazil 1916 on sugar-cane, in Brazil 1916	South Wales 822 Diabrotica spp. on in Mexico 1651	damage caused by 1369, 1926, 2363 forecasting infestations of 5963 in East Germany 5383 in England 4176
control of, integrated 1916 in Brazil 1916 on sugar-cane, in Brazil 1916 Mahanarva posticata	South Wales 822 Diabrotica spp. on in Mexico 1651 resistance to 6254 D. longicornis on	damage caused by 1369, 1926, 2363 forecasting infestations of 5963 in East Germany 5383
control of, integrated 1916 in Brazil 1916 on sugar-cane, in Brazil 1916 Mahanarva posticata control of	South Wales 822 Diabrotica spp. on in Mexico 1651 resistance to 6254 D. longicornis on assessing infestations of 1395, 3889,	damage caused by 1369, 1926, 2363 forecasting infestations of 5963 in East Germany 5383 in England 4176 in France 218, 3801
control of, integrated 1916 in Brazil 1916 on sugar-cane, in Brazil 1916 Mahanarva posticata control of insecticides for 1370 integrated 1916	South Wales 822 Diabrotica spp. on in Mexico 1651 resistance to 6254 D. longicornis on assessing infestations of 1395, 3889, 6250 distribution pattern of 6255	damage caused by 1369, 1926, 2363 forecasting infestations of 5963 in East Germany 5383 in England 4176 in France 218, 3801 in Poland 2893 in Switzerland 5536, 5652
control of, integrated 1916 in Brazil 1916 on sugar-cane, in Brazil 1916 Mahanarva posticata control of insecticides for 1370	South Wales 822 Diabrotica spp. on in Mexico 1651 resistance to 6254 D. Iongicornis on assessing infestations of 1395, 3889, 6250 distribution pattern of 6255 effects of sowing date on 5540	damage caused by 1369, 1926, 2363 forecasting infestations of 5963 in East Germany 5383 in England 4176 in France 218, 3801 in Poland 2893
control of, integrated 1916 in Brazil 1916 on sugar-cane, in Brazil 1916 Mahanarva posticata control of insecticides for 1370 integrated 1916 diapause in 1375	South Wales 822 Diabrotica spp. on in Mexico 1651 resistance to 6254 D. longicornis on assessing infestations of 1395, 3889, 6250 distribution pattern of 6255	damage caused by 1369, 1926, 2363 forecasting infestations of 5963 in East Germany 5383 in England 4176 in France 218, 3801 in Poland 2893 in Switzerland 5536, 5652 in UK 218, 6350 in West Germany 2891
control of, integrated 1916 in Brazil 1916 on sugar-cane, in Brazil 1916 Mahanarva posticata control of insecticides for 1370 integrated 1916 diapause in 1375 in Brazil 1370, 1375, 1916	South Wales 822 Diabrotica spp. on in Mexico 1651 resistance to 6254 D. longicornis on assessing infestations of 1395, 3889, 6250 distribution pattern of 6255 effects of sowing date on 5540 forecasting infestations of 3892	damage caused by 1369, 1926, 2363 forecasting infestations of 5963 in East Germany 5383 in England 4176 in France 218, 3801 in Poland 2893 in Switzerland 5536, 5652 in UK 218, 6350

aize contd.	Maize fields contd.	Maize (stored grain) contd.
Ostrinia furnacalis on contd.	predatory insects in, in Mexico 1653	Sitotroga cerealella in
in Papua New Guinea 5533	Scolothrips longicornis in, in China 315	damage caused by 592, 4656
O. nubilalis on		
	Staphylinoidea in, in West Germany	development of 6653
assessing infestations of 3378	6358	in Brazil 4121
development of 812	Syrphidae in, in Poland 1892	in Zambia 5813
effects of herbicides on 5028	Maize flour	resistance to 6178
in Bulgaria 314, 2620	diet component for	sex-pheromone production by 4117
in France 2364	Epichoristodes acerbella 501	Tinea fictrix in, in Nigeria 2088
in Iowa 878	Tenebrio molitor 1107	
in Italy 5534	make as as	Tribolium castaneum in, in Nigeria 365
in Nebraska 306	Tribolium castaneum in, development of	Maize streak virus, vectors of 310
	6098	Maize stripe virus
in Ontario 311	Maize grits, bait component for, Pheidole	in
in Switzerland 5538, 5652	megacephala 5264	maize, in Florida 2892
in Ukraine 2736	Maize hoja blanca virus	Peregrinus maidis, transmission of
in USSR 626	in, maize, in Venezuela 2892	2892
in West Germany 1927, 2891, 3887		
in Yugoslavia 5030	relation of maize stripe virus and 2892	relation of maize hoja blanca virus and
model 5542	Maize-leaf powder, diet component for,	2892
resistance to 880, 6162, 6163	Ostrinia nubilalis 812	major, Lipostemmata
varietal preferences of 5541	Maize meal	majusculus, Orius
Oxya yezoensis on, ovarian development	bait component for, Gryllotalpa	Makivora hagiyai
in 39	gryllotalpa 1043	gen. et sp. nov., description of 5203
	diet component for	in Japan 5203
pest control on 881, 2849, 5496, 6367,		_^ .
6368, 6369	Bradysia agrestis 1557	on Podocarpus macrophylla, in Honshu
biological 1646	Dichocrocis punctiferalis 4877	5203
carbofuran for 5537	Vairimorpha necatrix formulated in 2041	Malacosoma americanum
etrimfos for 5652	Maize oil	exploration in 2961
fonofos for 5523	against	in Canada 1092
insecticide granule placement for 6264	Sitophilus oryzae, in stored grain 6658	in USA 2961
insecticides for 5255, 6712	Sitotroga cerealella, in stored grain	olfactory receptors in, responses to leaf
terbufos for 5681	6658	volatiles of 5994
thresholds for 1927, 5963		
	diet component for, Lixophaga diatraeae 1316	on apple, in New York 2961
pesticides in, residues of 6370		parasitised by
pests of, in USA 6367	volatile components of 2649	Hyposoter fugitivus 2341
Phyllophaga spp. on	Maize rayado fino virus	Rogas malacosomatos, in Canada 10
in Costa Rica 4506	control of 5532	predators of, trail-following by 1288
in Mexico 1660	distribution of 5532	recruitment in 2961
Psammotettix striatus on, in Turkestan	in	trail markers of, specificity of 2201
2346	Dalbulus maidis, transmission of 5532	virus-like particles in, transmitted by
Pseudococcidae on, in Papua New Guinea	maize, in tropical America 5532	parasites 2341
903	symptomatology of 5532	Malacosoma californicum lutescens
Pseudonapomyza gujaratica on, in Gujarat	Maize (stored grain)	in Canada 1092
6372	Ahasverus advena in, in Kansas 4125	parasitised by, Rogas malacosomatos, in
Psylliodes picina on, in Pennsylvania 879	Araecerus fasciculatus in, damage caused	Canada 1092
Schistocerca gregaria on, morphology of	by 586	Malacosoma californicum pluviale
3832	arthropod pests of	in Canada 574, 1092
Sesamia nonagrioides on, damage caused	book 1609	parasitised by, Rogas malacosomatos, in
by 3888	in Mexico 881	Canada 1092
Sipha flava on, resistance to 3372	in Nigeria 4180	population dynamics of, models of 574
Sitophilus zeamais on, in Punjab 5816	Conoderus exsul in, development of 4314	Malacosoma disstria
Sitotroga cerealella on, in Punjab 5816	Cryptolestes ferrugineus in, in Kansas	adult behaviour in, diel variation in 35
Solenopsis invicta on, damage caused by	4125	biology of 563
2366	insect pests of	control of 563
Sphenophorus callosus on, in South	damage caused by 3111, 4663, 5224	growth regulators for 1094
Carolina 2897	in Minnesota 6170	descriptions of 563
		dispersal of 1275
Spodoptera exigua on	in Nigeria 3651, 4663	
development of 4329	in Swaziland 4662	Entomophthora crustosa in, in North
in Egypt 4327	interactions between 4667	America 2070
in Mexico 1654	insecticides in, uptake from treated	food-plants of 563
S. frugiperda on	surfaces of 2093	foraging behaviour in, relation of
in Mexico 1654, 2303	malathion in, residues of, effects of	predation and 4831
in Ontario 5265	moisture on 6214	in Ĉanada 563, 1092, 1094, 3575
in Virginia 4906	Oxycarenus hyalinipennis in, development	in USA 563, 2568, 4831, 6213
resistance to 2304	of 1542	melanism in, genetics of 4270
S. littoralis on, in Egypt 4477	parasitic insects in, in Swaziland 4662	Nosema disstriae in, effects of antibiotics
tetrachlorvinphos in, residues of 314	pest control in 6644	on 617
Tetranychus cinnabarinus on, effects of	aerosols and aeration systems for 4125	on Populus tremuloides, in Ontario 109
irrigation on 308	beta-irradiation for 3648	outbreaks of, factors in collapse of 621
Toya propingua on, in Turkestan 2346	fumigation for 4665	parasites of, in Minnesota 2568
	humidity control for 3113	parasitised by
Urophorus humeralis on, in Libya 358		Rogas malacosomatos, in Canada 10
aize (boiled grain), bait component for,	insecticide application methods for	
Gryllotalpa spp. 1554	2784	Sarcophaga aldrichi, in Minnesota
aize-cob grits	insecticides for 3661	6213
diet component for, Heliothis spp. 179	traditional methods of 3622	quantitative characters of, variation
dispenser for 2290	vegetable oils for 6658	patterns in 66
aize fields	pesticides in, residues of 6370	sex pheromone of, variation in responses
Aeolothrips fasciatus in, in China 315	predatory arthropods in, in Nigeria 4180	to 3575
Carabidae in	predatory insects in, in Swaziland 4662	trail markers of, specificity of 2201
in Iowa 1394	Rhyzopertha dominica in, in Nigeria	Malacosoma lutescens (see M. californicum
in West Germany 6357	3650	lutescens)
Coccinellidae in, in Ontario 2635	Sitophilus spp. in, development of 771	Malacosoma neustria
		control of
Formicidae in, in Nebraska 877		
insects in, effects of monoculture on	damage caused by 4122, 4123, 4124	biological 3158
6371	in Nigeria 3650	insecticides for 3982
Oribatei in, in USSR 1306	S. zeamais in	in Poland 3982
parasitic insects in	damage caused by 591, 4656	in USSR 1556, 2946, 6585
in Andhra Pradesh 6310	effects of protective atmospheres on	on fruit trees, in USSR 2946
in Mexico 1653	3672, 3673	on ornamental shrubs, in USSR 1556
Pheidole bicarinata in, in Nebraska 1875	in Brazil 4121	on Prunus, in USSR 6585
predatory arthropods in	in Nigeria 3650	Pleistophora carpocapsae in, not
effects of discing on 857	in Zambia 5813	pathogenic 5242
reservoirs of 2367	varietal preferences of 6648, 6649	P. schubergi in, pathogenicity of 5242
A DOOL TOLLD OF MOO!	Protection of Color, Color	

3223

Malathion contd. Malacosoma neustria testacea Malathion contd. in Japan 1296, 5596 against contd. in Coccinella septempunctata, toxicity of nuclear polyhedrosis virus in, in Japan 1296, 5596 Ephestia cautella 1712 in sorghum grain 5809 in stored dates 3659 in wheat grain 5809 in Corcyra cephalonica, effects on parasites of 2343 parasites of, in Japan 5596 population dynamics of 1296, 5596 predators of, in Japan 1296, 5596 in cotton, effects of rain on 5719 in Cucumis utilissimus, residues of 5663 Eriosoma lanigerum, on apple 5071 Euproctis fraterna, on plum 2447 in Drosophila melanogaster, effects of Malacosoma pluviale (see M. californicum Eurydema oleraceum, on cabbage application site on susceptibility to 2636 pluviale) lacosomatos, Rogas 6504 Malacothrips indicus (see Apelaunothrips Exelastis atomosa, on Cajanus cajan in fowl effects on yolk sac of 4161 toxicity of, effects of pretreatment with DDT on 1709 indicus) 6525 Formicidae 826 Malacothrips madrasensis (see Dexiothrips Gryllodes sigillatus 6711 madrasensis) Malafos (see Malathion)
Malagasy Republic in grain dust, reducing residues of 1611 in *Gryllodes sigillatus*, effects of crowding on susceptibility to 6711 Heliothis armigera, on Cajanus cajan 6525 Hellula undalis, on cabbage 5650 Hemiberlesia lataniae, on fig 4400 Microtermes spp. in 2843 Tetranychus spp. in, natural enemies of in lucerne fields, effects on pollinators of Holoplagia guamensis, on mushroom Malameba scolyti 2991 in maize grain, residues of, effects of in, Pityogenes chalcographus, pathogenicity of 4645 Irenimus compressus, on black currant moisture on 6214 pathogenicity of life-cycle of 4645 6720 in Musca domestica, effects of Lepisma saccharina, in dwellings 3837 Leptocorisa acuta, on rice 6381 temperature on susceptibility to 3705 Malaoxon (diethyl [(dimethoxyphosphinyl)tin onion, effects on root-tip cells of in pulse seeds, persistence of 1617 in sacking, persistence of 5824 in Sitophilus granarius, effects of hio]butanedioate) Leucinodes orbonalis, on eggplant metabolites of, determination of 1138

Malaoxon α-carboxylic acid (see

Butanedioic acid, 2-5705 Lygus lineolaris, on strawberry 366
Macrosteles fascifrons, on carrot 6228
Maruca testulalis, on Cajanus cajan
6525 temperature on susceptibility to in stored grain, uptake from treated surfaces of 2093 [(dimethoxyphosphinyl)thio]-, 4-ethyl Melanagromyza obtusa, on Cajanus cajan 6525 in stored products, residues of 585 in *Tribolium castaneum*, toxicity of 322 in *Trichogramma brasiliensis*, toxicity of 2343 Malathion (diethyl [(dimethoxyphosphinothioyl)thio]butanedioate) Melanaphis sacchari, on sugar-cane 290 against Acanthococcus aceris, on apple 4335 Acanthogryllus fortipes, on Cynodon Melanoplus sanguinipes 237
Mythimna separata, on rice 5558
M. unipuncta, on sorghum 2915
Nilaparvata lugens 6719
Oryzaephilus surinamensis, in stored dates 3659 in ULV sprays, sampling and analysis of droplets 3317 6431 in wheat grain effects on crops of 6656 persistence of 2094, 5223 residues of, effects of moisture on Achaea janata, on castor 3033 Acyrthosiphon kondoi, on lucerne 1954 Aelia rostrata, on grain crops 3366 Ahasverus advena, in maize grain pests of apple 3469 pests of cassava 102 4125 1023 in wheat products, residues of 4119 isomalathion determination in presence of Amrasca biguttula, on cotton 5719 A. devastans, on okra 4017 pests of cotton 4953 pests of lucerne 5048 pests of stored grain 1115, 2603
pests of stored groundnuts 3679
pests of stored wheat 6171
Phyllotreta spp. 1490
Rhyzopertha dominica 6654
in rice grain 1112
Sitchion steres on grain group Antestiopsis intricata, on coffee 499 metabolites of, determination of 1138 A. orbitalis, on conce Anthonomus rubi, on strawberry A. orbitalis, on coffee 499 resistance to, in Ephestia cautella, in New South Wales Aphis citricola, on grapevine Argyroploce leucaspis, on Litchi chinensis 6497 E. kuehniella, in New South Wales 1110 1110
Laodelphax striatella, in Kyushu 291
Myzus persicae, mechanisms of 2720
Nilaparvata lugens, in Kyushu 2912
Oryzaephilus surinamensis
in India 6640
mechanisms of 4159
pests of seeds 6182
pests of stored products 3109, 5804
Plodia interpunctella
in New South Wales 1110
selection for 1701
Rhyzopertha dominica Asterolecanium pustulans, on fig 4400 Athalia lugens 2637 Sitobion avenae, on grain crops 6349
Sitophilus granarius 6173
S. oryzae 2138, 2784, 6654
in rice grain 1112
in wheat grain 595
S. zeamais, in maize grain 4121, 5813
Sitotroga cerealella
in maize grain 4121, 5813
in rice grain 1112
in sorghum grain 5809
in wheat grain 5809
Sminthurus viridis, in pastures 5868
Sogatella furcifera 6719
Spodoptera littoralis 226 Sitobion avenae, on grain crops 6349 2720 Brevicoryne brassicae, on cabbage 6504 Brevipalpus californicus, on Citrus 978 Callosobruchus chinensis in Cicer arietinum seeds 5228 in stored pulses 1617 in Vigna mungo seeds 5227 in Vigna mungo seeds 5227 in Vigna radiata seeds 433 C. maculatus, in stored pulses 1617 Carpomyia vesuviana 6477 Ceratitis capitata 4563, 5595 Rhyzopertha dominica in India 6640 in Western Australia 4 Sitophilus granarius 5814 S. oryzae, in India 6640 Tribolium castaneum Chaetocnema concinna 1490 Chortoicetes terminifera 6276 Spodoptera littoralis S. litura 3222 Cnephasia pasiuana, on grain crops 5026 Stomopteryx subsecivella, on groundnut 6526 Teleogryllus commodus, in pastures 3979 artificial selection for 671
in India 6640
in North Carolina 1608
synergists for 226
piperonyl butoxide as 4398
triphenyl phosphate as 1110, 1608,
1701 C. pumicana, on grain crops 4502 Coccus hesperidum, on pot plants 2977 Therioaphis trifolii, on lucerne 1954 2917
Contarinia sorghicola, on sorghum
5574, 6428
Corcyra cephalonica
in sorghum grain 5809
in wheat grain 5809
Cryptolestes ferrugineus, in maize grain
4125
Critic deliverse on bergen 2047 Thrips tabaci on cotton 512' on onion 5697 on tobacco 1554

Toxoptera citricida, on Citrus 4004

Tribolium castaneum 6654 thermal degradation of 645 with aldrin in rice grain 1112 in stored dates 3659 in wheat grain 2094 T. confusum 4398, 5824 4125 Cydia delineana, on hemp 3047 Cydia delineana, on apple 381, 2945 against, Tribolium castaneum 3220 antagonistic 3220 C. pomonella, on apple Dacus cucurbitae 1500 with carbaryl against in flour 3219 on Cucumis utilissimus Leucinodes orbonalis, on eggplant in wheat grain 595 D. oleae, on olive 1476 5705 in wheat grain 595
Trogoderma granarium 6654
Zygina maculifrons, on rice 336
in Apis mellifera, toxicity of 678
in Blatta orientalis, effects of temperature
on susceptibility to 3705
in Cales noacki, toxicity of 3493
in Channa punctatus, toxicity of 4708
in citrus groves pests of soyabean 459 with chlorobenzilate, against, D. tryoni, on passion fruit 3511 Dasineura tetensi, on black currant 3456 Eutetranychus orientalis, on Citrus Diacrisia obliqua, on sugar-beet 5684, 5686 2450 with diazinon, against, Leucinodes orbonalis, on eggplant 5705 with dichlorvos Dichocrocis punctiferalis, on castor 2506 Dicladispa armigera, on rice 6373 Drosophila melanogaster 2636 Earias spp., on okra 4017 in citrus groves effects on predatory insects of 4004 non-target effects of 975 against Mythimna separata, on rice Tribolium confusum 4398 5558

alathion contd.	Malaysia contd.	Mamestra brassicae contd.
with dieldrin, against, Tribolium castaneum 3220	Tetragnathidae in 4512 Tetranychus piercei in 705	on cauliflower in France 2998
with dioxacarb, against, Tribolium	Vigna radiata in, insect pests of 431, 436	in Yugoslavia 4024
confusum 4398	Maldison (see Malathion)	on sugar-beet, in Bulgaria 2620
with endrin	maleficus, Leptopius	oviposition in, rhythm of 418
against, Tribolium castaneum 3220	Maleic acid (see 2-Butenedioic acid, (Z)-)	Paecilomyces fumosoroseus in,
antagonistic 3220 with fenitrothion	malella, Stigmella Mali	pathogenicity for eggs of 6672 parasitised by
against	Acrididae in 5912	Apanteles ruficrus 2335
Amrasca devastans, on okra 1492	locust control in 5899	Diadegma fenestralis 2335
Aphis gossypii, on okra 1492 Athalia lugens 2637	Locusta migratoria in 2321 on grasses 3328	Hyposoter spp. 2335 Microplitis marshalli 2335
Contarinia sorghicola, on sorghum	Sitophilus oryzae in, in stored grain 4665	M. tuberculifera 2335
3976	stored grain in, pest control in 4665	Trichogramma spp.
Earias spp., on okra 1492 in sorghum, toxicity of 3976	Tribolium castaneum in, in stored grain 4665	in France 1669 in Ukraine 5096
with fenthion, against, Leucinodes	mali, Aceria	T. evanescens 5464
orbonalis, on eggplant 5705	mali, Aphelinus	in Bulgaria 419, 420
with iodofenphos, against, Tribolium confusum 4398	mali, Atractotomus mali, Dasineura	photoperiodism in 2238 rearing of, diets for 4878, 6143
with lindane, against, Leucinodes	mali, Leptothrips	sex pheromone of, components of 6059
orbonalis, on eggplant 5705	mali, Lycoriella	Mamestra configurata
with Nosema locustae, against, Melanoplus sanguinipes 237	mali, Psylla mali, Scolytus	biology of 4574
with oil emulsion	mali, Zetzellia	diapause in 4576 in Canada 996, 4574, 4575
against	Malic acid (see Butanedioic acid, hydroxy-)	on rape
Asterolecanium pustulans, on fig 4400	malicola, Lepidosaphes malifoliae, Cecidophyes (Phyllocoptes)	forecasting infestations of 4574
Hemiberlesia lataniae, on fig 4400	malifoliae, Phyllocoptes (see Cecidophyes	in Manitoba 996 parasites of, in Manitoba 4575
Spodoptera littoralis, on Citrus 977	malifoliae)	parasitised by
Tetranychus urticae, on Citrus 977	malinella, Lyonetia prunifoliella	Athrycia cinerea, in Manitoba 996
with parathion against	malinellus, Yponomeuta malinus, Pseudaphycus	Banchus flavescens, in Manitoba 996 traps for 2125
Leucinodes orbonalis, on eggplant	malisuctus, Myzus (see Ovatus malisuctus)	Mamestra oleracea (see Lacanobia oleracea)
5705	malisuctus, Ovatus (Myzus)	Mamestra pisi (see Ceramica pisi)
Tribolium castaneum 3220 with protein hydrolysate 1476, 3511	Malta, Dermaptera in 5413 Malus, Yponomeuta malinellus on, in	mamillata, Agria (Pseudosarcophaga) mamillata, Pseudosarcophaga (see Agria
with quinalphos, against, Tribolium	Tadzhikistan 1600	mamillata)
castaneum 3220	malus, Hemisarcoptes	Mammal nests, Heteroptera in, in Hungary
alawi Diopsis macrophthalma in, on rice 1934	Malus pumila (see Apple) Malva parviflora, predatory arthropods	3314 Mammals
Earias biplaga in 2200	associated with, in Queensland 2546	carbofuran in, toxicity of 4162
Empoasca spp. in 24	Mamestra	pesticides in
Heliothis armigera in 2200 plant protection in 3238	cell cultures from 5433 flight activity in 5378	metabolism of 3199 role of oxidases in metabolism of 3197
Spodoptera exempta in 1172	in Romania 5378	pyrethroids in, metabolism of 656
layanus, Nephotettix	larval development in 3802	Man
layanus, Papilio demoleus layensis, Ooencyrtus	Mamestra brassicae attractants for 3235	arthropod pests of, in Indiana 2850 Bacillus thuringiensis in, not pathogenic
alaysia	biology of 5655	627
agricultural entomology in 2651, 4723	control of	bufencarb in, toxicity of 4078
biological control in 3185	biological 419, 1643, 1669, 2620, 2998, 4024, 5096, 5838, 5839	DDT in, residues of 5768 insecticides in, toxicity of 3180
cassava chips in, insect pests of 3143 Chalcidoidea in 4462	insecticides for 655, 4024, 5655	lindane in, residues of 5768
Chilo polychrysus in, on rice 6423	mating disruption for 6059	pesticide hazards to 679
Coreidae in 2265 Cryptolestes klapperichi in, in cassava	timing of 106, 2998 development in, effects of temperature on	Pyemotes zwoelferi on, prurigo caused by 6642
products 1106	1255	pyrethroids in, toxicity of 1157
C. pusillus in, in cassava products 1106	diapause in 1255, 2238	Mancozeb
Dacus dorsalis in, on Capsicum 2502 Heterobostrychus aequalis in, in exported	hormonal regulation of 758 emergence in, rhythm of 418	against Aspergillus niger, in insect rearing
wood 3676	flight activity in 106	media 3324
insecticide use in 5968	rhythm of 418	Dolichotetranychus floridanus, on
Lasioderma serricorne in, in herbarium	genome in, properties of 1788 in Bulgaria 419, 420, 2620	pineapple 2983 Psylla pyricola, on pear 4888
specimens 3615 Nephotettix spp. in	in Czechoslovakia 3235	in Heliothis virescens, toxicity of 3324
natural enemies of 5546	in France 1669, 2998	with dinocap
on rice 5546, 6408 N. virescens × N. nigropictus in 334	in Italy 5655 in Japan 1255	against, Aspergillus niger, in insect rearing media 3324
Nilaparvata lugens in	in Poland 4014	in Heliothis virescens, toxicity of 3324
natural enemies of 3408	in Romania 106	with endosulfan, against, pests and
on rice 2381, 3399, 3407, 3916, 6406, 6408, 6423	in USSR 1643, 5096, 5838, 5839 in Yugoslavia 4024, 5964	diseases of cauliflower 1498 with insecticides, against, pests and
oil palm in, insect pollinators of 1437	methoprene in, effects on pupal diapause	diseases of Chrysanthemum 4613
Ophiomyia phaseoli in	of 758	with methidathion, against, pests and
on Phaseolus vulgaris 2479 on Vigna unguiculata 2479, 5671	Nomuraea rileyi in, pathogenicity for eggs of 6672	diseases of cauliflower 1498 mandali, Marpissa
Papilio demoleus in, natural enemies of	nuclear polyhedrosis virus in 3890	mandanis, Tetrastichus
404	activation of 5849	Mandarin and tangerine (Citrus reticulata)
Platypodidae in 1095	DNA in 4683 formulations of 1643	Aphis citricola on damage caused by 401
Plutella xylostella in natural enemies of 1001	purification of 1644, 2110	in Karnataka 401
on Brassica rapa 2992	on broccoli, damage caused by 5655	Brevipalpus californicus on, in Punjab
on cabbage 5657	on cabbage damage caused by 4014	6487 B. phoenicis on, in Punjab 2451
insect pests of 322, 900	in Bulgaria 419	Coccus viridis on, in Karnataka 5635
pest control on 322, 5567	in Chuvash ASSR 5838	Dialeurodes citri on, in Afghanistan
Scolytidae in 1095, 3459	in France 1669 in Maritime Territory 5839	2968 Indarbela quadrinotata on, in Punjab
Silvanus bidentatus in, in herbarium specimens 3615	in Moldavia 5096	2420
Sogatella furcifera in, on rice 6406, 6407,	in Ukraine 5096	oil emulsions in, toxicity of 5635
6408	in USSR 1643	Panonychus elongatus on, in China 4866

```
Mandarin and tangerine contd.
                                                                                                          Maneb contd.
     Parlatoria ziziphus on, in Egypt 4334 pest control on, insecticides for 5634
                                                                                                               against, Aspergillus niger, in insect rearing
                                                                                                                      media 3324
                                                                                                               in Entomophthora obscura, toxicity of
     Phyllocnistis citrella on, in Afghanistan
            2968
                                                                                                                       4136
                                                                                                               in Heliothis virescens, toxicity of 3324 with acephate, and fentin acetate, against, Spodoptera littoralis, on cotton 4386,
Phyllocoptruta citri on, in Egypt 403
Mandarin oil
     synergist for
cypermethrin 3797
temephos 3797
mandarina, Bombyx (Theophila)
mandarina, Theophila (see Bombyx
                                                                                                                       4390
                                                                                                               with fentin acetate, antifeedant for,
                                                                                                                      Spodoptera littoralis, on cotton 4390
                                                                                                               with fentin acetate, and phosfolan, against, Spodoptera littoralis, on cotton 4386,
       mandarina)
Manduca quinquemaculata
control of, insecticides for 4609
in USA 4609
on tobacco, in Virginia 4609
predators of, effects of insecticides on
4609
                                                                                                               with fentin acetate, and profenofos,
against, Spodoptera littoralis, on
cotton 4390
                                                                                                               with fentin acetate, and tetrachlorvinphos,
against, Spodoptera littoralis, on
cotton 4386, 4390
Manduca sexta
accessory glands in 4784
ascorbic acid in
                                                                                                          Manganese
    accorder actument for 2191
replacements for 2191
Bacillus thuringiensis in
effects on mid-gut of 6676
effects on mid-gut transport of 3250
canavanine in, effects on behaviour and
                                                                                                               in Agrotis segetum, accumulation of 38 ion (Mn<sup>2+</sup>), in Laodelphax striatella diet 3270
                                                                                                          Manganese, [[1,2-ethanediylbis[carbamodith-
ioato]](2-)]- (see Maneb)
Mangel (Beta vulgaris)
lindane in, residues of 6723
            neuromuscular activity of 6221
        arnitine in 1152
                                                                                                               Phyllotreta undulata on, not feeding
     chlordimeform in, mode of action of
                                                                                                                      4018
                                                                                                          Mangifera indica (see Mango)
mangiferae, Drosicha
mangiferae, Oligotrophus
mangiferae, Phenacoccus (see Rastrococcus
            3196
    insecticides for 4609, 4934, 5115
non-target effects of 4934
cuticle in, tanning of 5335
development in
hormonal regulation of 6078, 6082
timing of events during 6096
diapause in 497
hormonal regulation of 6078
     control of
                                                                                                         mangierae, Fuenacoccus (Phenacoccus)
mangiferae, Rastrococcus (Phenacoccus)
mangiferae, Sternochetus
mangiferus, Neophyllobius
mangiferus, Oligonychus
Mango (Mangifera indica)
Aleurocanthus woglumi on, in Florida
1465, 4005
    diapause in 497
hormonal regulation of 6077
terminated by organic solvents
enzymes in 736, 1789, 3252
epidermis in, role of hormones in
development of 4260
excretion in 4246, 4247
                                                                               4258
                                                                                                               1465, 4005

Anastrepha ludens on, in Mexico 2305

Apsylla cistellata on, in Uttar Pradesh
                                                                                                                      990
     flight in, effects of gravity on 6046 food-aversion learning not found in 90
                                                                                                               Batocera rufomaculata on, in Tamil Nadu
   formamidines in mode of action of 3196 neurotoxicity of 1235 gut cuticle in, permeability of 5333 heartbeat in, regulation of 4244 hemolymph in, lipoproteins in 3267 in USA 497, 3562, 4609, 4934, 5729 juvenile hormones in metabolism of 3252 protein binding of 3252 mid-gut in, functional morphology of 3734 muscles in, degeneration of 6052
     formamidines in
                                                                                                               Ceroplastes pseudoceriferus on, damage
                                                                                                                       caused by 5087
                                                                                                               Chloropulvinaria polygonata on, in
Bangladesh 5087
                                                                                                               Chlumetia transversa on, damage caused by 4012
                                                                                                               Coccidae on, in Egypt 1894
Drosicha mangiferae on, in Haryana
                                                                                                                      1481
                                                                                                               Idioscopus clypealis on
in Andhra Pradesh 4010
in Delhi 4010
    muscles in, degeneration of 6052
nervous system in 751
neuromuscular system in 3750
neurotransmitters in 751
                                                                                                               I. nigroclypeatus on
in Bihar 4010
in Burma 4010
     neutral red in, effects on carbohydrates of 5345
                                                                                                                    in Karnataka 4010
     on Datura stramonium, mortality of
                                                                                                               Latoia lepida on, development of 2461
                                                                                                               Oligonychus mangiferus on development of 935
            3562
     on Lycopersicon hirsutum, resistance to 4048
                                                                                                                    in Madhya Pradesh 4295
     on tobacco
                                                                                                               Oligotrophus mangiferae on, in Bihar
2174
    on tobacco
in North Carolina 497
in Virginia 4609
mortality of 3562
varietal preferences of 5729
ovarian development in 2717
overwintering in, predicting of 497
parasites of, effects of food-plant on
3562
                                                                                                               Pardalaspis cosyra on, in Kenya 5644
pest control on, trap-bands for 1481
Pseudaonidia trilobitiformis on, in Florida
                                                                                                                      5088
                                                                                                          Rastrococcus mangiferae on, in
Bangladesh 4447
Sternochetus mangiferae on, damage
caused by 4011
Mango orchards
             3562
     predators of, effects of insecticides on
4609, 4934
preyed on by, Jalysus spinosus, in Virginia
4934
                                                                                                               Eupalopsis aegyptiaca in, in Egypt 1894
Neophyllobius mangiferus in, in Egypt
830
     prothoracicotropic hormone in 6078 release site of 6084 toxicity induced in 726 transcription in 1789 2-tridecanone in, toxicity of 5115 price odd in developmental charges in
                                                                                                               parasitic insects in, in Andhra Pradesh
                                                                                                                      6310
                                                                                                          Mango (stored fruit), fumigants in, residues of 1121
                                                                                                          Mango (wood), Coptotermes heimi in, not
developing 6660
Mangold (see Mangel)
Manhatta biviella
biology of 3059
     uric acid in, developmental changes in 4247
vitellogenins in, characterization of 3282

Maneb ([[1,2-ethanediylbis[carbamodithioat-
o]](2-)]manganese)
```

```
in USSR 3059
on Pinus, in USSR 3059
 manicatus, Chirothrips
Manihot esculenta (see Cassava)
manihotae, Vatiga
manihoti, Phenacoccus
manihoti, Scirtothrips
 manilensis, Locusta migratoria
 manilensis, Longitarsus
Manilkara multinervis (wood), Coptotermes formosanus in, resistance to 4465
 Manineura, gen. nov., description of
Manineura pentatomivora
in India 703
    parasitising, Urostylis punctigera, in India
           703
    taxonomy of, transferred from Pachyneuron 703
 Manitoba
    Acarus immobilis in, in Vicia faba seeds
           3127
    Ahasverus advena in, in wheat grain
    Amphipoea interoceanica in, on
strawberry 6447
Androlaelaps casalis in, in Vicia faba
seeds 3127
Aphididae in 144
     Aphidoidea in, ant associations of 4971
    Aphis barberae in
     Contropaeolum 6017
Contropaeolum 6017
Cryptolestes ferrugineus in, in wheat grai
4668
         on Arctium 6017
    Dermestes lardarius in, in structural wood 596
    Formicidae in, in hothouses 4428
Hadena atlantica in, natural enemies of
    Mamestra configurata in, natural enemies of 996, 4575
    Mythimna unipuncta in, natural enemies
    Phyllotreta spp. in, on rape 4021
Phytocoris brooksi in, on Quercus
    Priobium sericeum in, in structural wood
           596
     Psylliodes punctulatus in, on rape
     Tapinoma melanocephalum in, in dwellings 4428
     Tyrophagus putrescentiae in, in Vicia fab.
          seeds
    Xestia c-nigrum in, natural enemies of
    Zygogramma exclamationis in, on sunflower 3035
D-Mannitol, in Elatobium abietinum, role in coldhardiness of 3063

Mannosidase, α-, in Spodoptera eridania larval mid-gut 41
Manoneura, taxonomy of, proposed as replacement for Oligoneura Davis 2177
Manoneura basidactyla, taxonomy of, transferred from Oligoneura Davis 217
Mansonia altissima (wood), Coptotermes
       formosanus in, resistance to 4465
manteo, Heterocampa
Mantibaria, larval head-capsules in 3368
Mantis religiosa
in Libya 5083
    preying on, Saissetia oleae, in Libya 5083
5083
Mantoptera, in Soviet Central Asia 2755
Manuka (see Leptospermum)
Manzeb (see Mancozeb)
Maple (see Acer)
Maple, red (see Acer rubrum)
Maple, striped (see Acer pensylvanicum)
Maple, sugar (see Acer saccharum)
Marasmia trapezalis, gut in 4746
marcida, Mocis
marcovitchi Tetrostichus
marcovitchi, Tetrastichus
Margaronia indica (see Diaphania indica)
Margaronia indica (see Diaphania indica)
marginaria, Erranis
marginata, Forda
marginata, Haplodiplosis
marginatus, Pachystethus
marginella, Anisoscelis foliacea
marginicollis, Scymnus
Marginitermes hubbardi, uric acid in 4223
marginiventris, Apanteles
mariae, Clausenia
```

mariae, Clausenia

narianae, Tetranychus	Massachusetts contd.	Matsumuraeses phaseoli
farietta, taxonomy of 2841	Agromyza frontella in, on lucerne 4884	biology of 1513
Marietta graminicola hyperparasitising, Schizaphis graminum,	Lymantria dispar in 1589, 5189 Panonychus ulmi in, on apple 4552	distribution of 1513
in Texas 3882	Psilocorsis spp. in, on Quercus 561	in Japan 1513 on soyabean, in Japan 1513
in USA 2917, 3882	Rhagoletis pomonella in, on apple 2441	parasites of, in Japan 1513
parasitising	Tetranychus ulmi in, on apple 4552	matsutama, Inostemma
Aphelinus nigritus, in Texas 2917	Massalongia, on Betula, in Finland 5150	matsutama, Platygaster
Lysiphlebus testaceipes, in Texas 2917 Aarietta javensis	Massospora cicadina, in, Magicicada cassinii	maura, Eurygaster
hyperparasitising, Saissetia oleae, in Libya	4635 Mastigophora	maura, Ladora Mauritania, locust control in 5899
3508	Herpetomonas 6210	mauritanicus, Tenebroides
in Libya 3508	Phytomonas 1961	mauritia, Spodoptera
Aarigold (Calendula officinalis)	Pseudotrichonympha grassii 1356	Mauritius
as companion crop for insect control 3512	Mastopoda pteridis	agricultural entomology in 1171
Aarigold, French (see Tagetes patula)	in Canada 4971	Myzus persicae in, on potato 5513
naritima, Anisolabis	on <i>Pteridium aquilinum</i> , in Manitoba 4971	plant protection in 3238
naritimus, Archenomus	tended by, Myrmica emeryana, in	Pulvinaria iceryi in, on sugar-cane 1372 sugar-cane in
naritimus, Metaphycus Aarket-garden crops, arthropod pests of, in	Manitoba 4971	arthropods associated with 6347
West Germany 2162	Mastrus aciculatus	insect pests of 5513
narlatti, Aleurolobus	in Canada 1592	Maxantonia, taxonomy of 16
farlattiella, taxonomy of 2841	parasitising, Neodiprion sertifer, in	maxidentex, Orius
naroccanus, Dociostaurus	Newfoundland 1592	maxillosus, Sphex (see S. rufocinctus)
naroccanus, Tenebroides (see T. fuscus) Aarpissa mandali	Mastrus carpocapsae in USA 3993	maydis, Sipha Mayetiola destructor
in India 3939	parasitising, Cydia caryana, in Texas	biotype B 300
in rice-fields, in Kerala 3939	3993	biotype D 6155
preying on, Nilaparvata lugens 3939	mastuerzo, Sibinia	control of 6693
Marrow (see Squash) Marshall Islands, arthropods in 4309	Matacil (see Aminocarb) Matadan	Great Plains biotype 6155 in USSR 2360, 6693
narshalli, Gilpinia	against	on grain crops, effects of temperature on
narshalli, Microplitis	Heliothis zea, on Cicer arietinum 2302	6156
narsupialis, Pachypappa	Spodoptera exigua, on Cicer arietinum	on rye, resistance to 6155
nartellii, Eurytoma	2302	on triticale, resistance to 6155
Maruca testulalis control of	Maté (see Ilex paraguensis) mathias, Parnara (see Pelopidas mathias)	on wheat damage caused by 297
insecticides for 431, 455, 5104, 6525	mathias, Pelopidas (Parnara)	in Ukraine 2360
timing of 447	Matikalai (see Vigna mungo)	resistance to, effects of temperature on
in India 6525	Mating disruption	300
in Malaysia 431, 436 in Nigeria 455, 5104, 6514	against Agrotis venerabilis 4716	Maysin in Heliothis zea, development inhibition
in Philippines 447	Anthonomus grandis 6057	by 5029
in Sri Lanka 429	Apamea devastatrix 1135	in Heliothis zea diet, inhibiting larval
Mermithidae in, in Nigeria 6514	Argyrotaenia velutinana 1729, 4923	growth 304
on Cajanus cajan, in Tamil Nadu 6525	Autographa californica 632	in maize 5029
on Vigna radiata in Philippines 447	Chilo suppressalis 1740 Choristoneura fumiferana 1737, 3582,	in maize silks 304 mbila, Cicadulina
in Sarawak 436	3598, 6601	Meadowsweet (see Spiraea ulmaria)
in Sri Lanka 429	C. rosaceana 4923	Mealy tree (see Viburnum lantana)
in West Malaysia 431	Chrysoteuchia topiaria 2410	Meat
on Vigna unguiculata in Nigeria 455, 5104	Cydia funebrana 1744 C. molesta 6461	bait component for, <i>Pheidole dentata</i> 4499
resistance to 4585	C. pomonella 392, 1744, 6057	pesticides in, residues of 5981
parasites of, in Nigeria 6514	Diparopsis castanea 1740	Mecamylamine (N,2,3,3-
predators of, in Nigeria 6514	Eucosma sonomana 6593, 6594	tetramethylbicyclo[2.2.1]heptan-2-amine)
seasonal abundance of 429 naryae, Eudiagogus	Eupoecilia ambiguella 1744 Euxoa tristicula 686	in <i>Drosophila melanogaster</i> , toxicity of 6699
Maryland	Heliothis spp. 665	Mecarbam (ethyl 6-ethoxy-2-methyl-3-oxo-7
Agrotis ipsilon in, on maize 4900	Lymantria dispar 577, 1589, 3591,	oxa-5-thia-2-aza-6-phosphanonanoate 6-
Asilidae in 3857	6057	sulfide)
Carpophilus lugubris in, on maize 4899	Orgyia antiqua 6599	against Anoplolepis longipes 243
Ecdytolopha insiticiana in, on Robinia 502	O. pseudotsugata 1070, 4106 Ostrinia nubilalis 880, 1747	Delia brassicae, on brussels sprouts
Empoasca fabae in, on potato 5689	Pectinophora gossypiella 1038, 1745	216
Epilachna varivestis in	pests of stored products 3629, 3630	Mecarphon (methyl 3,7-dimethyl-6-oxo-2-
natural enemies of 4028	Platynota stultana 1729 Plutella xylostella 1135, 4765	oxa-4-thia-7-aza-3-phosphaoctan-8-oate 3 sulfide)
on soyabean 4887 Euaresta bella in, on Artemisia 3351	Spodoptera littoralis 1740, 4698	against
E. festiva in, on Artemisia 3351	S. litura 3237	Delia brassicae, on radish 5097
Eumorpha satellitia in 4315	S. triturata 1749	Schistocerca gregaria, on wheat 5911
Galinsoga spp. in, insect enemies of 4487	Synanthedon pictipes 6237	in radish, toxicity of 5097 Mecas inornata
Hypera postica in 1951 Leptinotarsa decemlineata in, on tomato	Trichoplusia ni 6698 Zeiraphera diniana 1744, 3587	biology of 2036
6551	model 6120	in USA 2036
Lymantria dispar in 1589	Matricaria chamomilla (see Chamomile)	rearing of, techniques for 2036
Mythimna unipuncta in, on maize 4900	matricariae, Aphidius	Mechanitis isthmia (see M. polymnia
Oulema melanopus in, natural enemies of 4504	Matsucoccus feytaudi emergence in, sex differences in 1598	isthmia) Mechanitis polymnia isthmia
Strymon melinus in, on Petunia 86	in France 1598, 3600	group behaviour in 5499
Masakimyia pustulae	on Pinus pinaster, in France 1598, 3600	in Costa Rica 5499
colour forms of 4794	Matsucoccus matsumurae	on Solanum, in Costa Rica 5499
in Japan 4794	control of, biological 567	oviposition in 5499 Mecocerini, in Japan 4187
on Euonymus fortunei, galls of 4794 on Euonymus japonicus, galls of 4794	in China 567 on <i>Pinus</i> , in Kiangsu Province 567	Mecoptera, book 6265
Masalia, taxonomy of, Raghuva	population dynamics of 567	Medetera
albipunctella misidentified as, in Senegal	predators of, in Kiangsu Province 567	in Scolytid tunnels, in France 5186
316	Matsucoccus resinosae	in spruce forests, in Alaska 5738 preying on, <i>Dendroctonus</i> spp., in Mexico
Mashkalai (see Vigna mungo) Masonaphis lambersi (see Illinoia lambersi)	coldhardiness in 4938 in USA 4938	1649
Massachusetts	on Pinus resinosa, in USA 4938	Medetera aldrichii
Aculus schlechtendali in, on apple 4552	matsumurae, Matsucoccus	in USA 2594

parasitising, Syrphidae, in Poland 3995

on Robinia pseudacacia, in Ohio 1102

Medetera aldrichii contd. Megacyllene robiniae contd. Megastigmus pistaciae on prey food-plants, distribution pattern of 2594 biology of 2944 in Tunisia 2944 traps for 1102 Megaloceroea recticornis Medetera polonica control of, cultural 348 on Pistacia vera, in Tunisia 2944 sp. nov., description of 3594 in Poland 3594 in UK 3443 in USA 348 Megatoma, in structural wood, in Manitoba preying on, Cryphalus piceae, in Poland 3594 in grassland, effects of cutting on 3443 on Festuca rubra, damage caused by 3 megatoma, Attagenus (see A. unicolor) meghriensis, Amblyseius Megalocoleus molliculus in USA 2069 Megoura crassicauda in Japan 1426 Medetera signaticornis, in Poland 3594 Medetera striata, in Poland 3594 media, Dolichovespula on Achillea millefolium, in USA 2069 on lucerne, in Japan 1426 media, Lopidea
media, Lopidea
Medic, gama (see Medicago rugosa)
Medic, hand barrel (see Medicago Megalocypha, on eggplant, in Kerala 2031
Megalocypha microcasis 2031 Megoura viciae 1-butanol in, growth regulator activity of Megalurothrips sjostedti control of, insecticides for 455, 4585 in Nigeria 455, 3525, 4585, 6515 truncatula) coldhardiness in 4846 Medic, snail (see Medicago scutellata) control of Medicago on Vigna unguiculata growth regulators for 4715 Acyrthosiphon kondoi on, development of 930 insecticides for 661 egg viability in 3759 energy budget of 4031 in Nigeria 455 resistance to 696, 4585 screening for 3525 Heliothis punctigera on, in New South Wales 4608 pest control on, biological 5951 insect growth regulators in, developmental changes in sensitivity to 4715 preyed on by Orius albidipennis, in Nigeria
O. amnesius, in Nigeria 6515
Megapenthini, in USSR 11 Medicago aculeata
Acyrthosiphon kondoi on, varietal
preferences of 6437
Therioaphis trifolii on, varietal preferences sex determination in 3759 megourae, Alloxysta megourae, Alloxysta

Meibomeus musculus
on Desmodium 1584
on Lespedeza 1584

Meigenia mutabilis
in Romania 2414
parasitising, Hypera postica, in Romania 2414 Megaponera foetens
emigration in 2329
foraging in 2329
in Nigeria 1818, 2329, 3868
male biology of 1818
predation by, role of pheromones in of 6437 of 6437

Medicago hispida, Acyrthosiphon kondoi on, in Japan 1426

Medicago littoralis
Acyrthosiphon kondoi on, varietal preferences of 6437

Therioaphis trifolii on, varietal preferences of 6437 3868 meijerei, Odinia recruitment in 2329 trail-following in 1818 Melanagromyza control of, insecticides for 439 on Vigna radiata in Bangladesh 433 Megarhyssa
competitive speciation in 4646
premating behaviour in 1085
Megarhyssa atrata
oviposition in 4646 Medicago polymorpha
Acyrthosiphon kondoi on, varietal
preferences of 6437 Therioaphis trifolii on, varietal preferences of 6437 in Thailand 439 resistance to 448 Medicago rugosa
Acyrthosiphon kondoi on, varietal
preferences of 931, 6437
Therioaphis trifolii on, varietal preferences
of 931, 6437 parasitising, *Tremex columba*, in North America 4646 Melanagromyza obtusa control of Megarhyssa greenei in USA 1085 cultural 2488 insecticides for 6524, 6525 in India 2488, 6524, 6525 oviposition in 4646
parasitising, *Tremex columba*, in North
America 4646 of 931, 6437

Medicago sativa (see Lucerne)

Medicago scutellata

Acyrthosiphon kondoi on, varietal
preferences of 6437

Therioaphis trifolii on
development of 930
varietal preferences of 6437

Medicago tornata

Acyrthosiphon kondoi on, varietal
preferences of 6437

Therioaphis trifolii on, varietal preferences of 6437 on Cajanus cajan
effects of intercropping on 2488
in India 6524
in Tamil Nadu 6525 premating behaviour in 1085 Megarhyssa macrurus
in USA 1085
oviposition in 4646
parasitising, Tremex columba, in North
America 4646 Melanagromyza phaseoli (see Ophiomyia phaseoli) phaseoli)

Melanagromyza sojae
control of, insecticides for 445
in Taiwan 445
in Thailand 451
on Vigna radiata, resistance to 445, 451

Melanaphis indosacchari (see M. sacchari
indosacchari) premating behaviour in 1085

Megaselia halterata Therioaphis trifolii on, varietal preferences of 6437 control of biological 2990 growth regulators for insecticides for 4571 Medicago truncatula
Acyrthosiphon kondoi on, varietal
preferences of 931, 6437
Therioaphis trifolii on 4571 Melanaphis sacchari
Gibberella fujikuroi in, in China 620
in China 620 Howardula husseyi in effects on life-span of 2990 liberation of 2990 development of 930 varietal preferences of 931, 6437 Melanaphis sacchari indosacchari biology of 290 control of, insecticides for 290 in India 290 varietal preferences of 931, 6437

Medicinal plants (dried)
insect pests of, in Egypt 2607

Lasioderma serricorne in
development of 2608
in West Germany 3106

medinalis, Cnaphalocrocis

mediocris, Lixophaga

meditabunda, Edessa

meditator, Rhysipolis

mediterranens, Pnigalio

medius, Ptomaphagus

Meenoplidae, in rice-fields, in Egypt 3394

Meessiinae, in USSR 141

Megacephala, compound eyes in 1227

megacephala, rotundata

deet in, toxicity of 2924 in UK 412 on mushroom, in England 412 population dynamics of population dynamics of 412

Megaselia nasoni
in UK 4996
parasitising, Araneae, in UK 4996

Megaselia pulicaria
in UK 4996
parasitising, Araneae, in UK 4996
Megaselia scalaris
biology of 6185
development in, effects of temperature on 6185
in Philippings 905 in India 290
on sorghum, in Uttar Pradesh 290
on sugar-cane, resistance to 290
parasites of, in Uttar Pradesh 290
predators of, in Uttar Pradesh 290
melanarius, Pterostichus
Melanaspis glomerata
biology of 4498
control of 4498
insecticides for 6345
in India 4498, 6345
on Sugar-cane in Philippines 905 parasitising, *Chilo suppressalis*, in Philippines 905 on sugar-cane damage caused by 4498 in Andhra Pradesh 6345 running in, stop-go pattern of 3752

Megastigmus bipunctatus
in Sweden 2660
on Juniperus, in Sweden 2660
parasitised by, Pteromalus sylveni, in
Sweden 2660 Melanaspis obscura, preyed on by, Myiomma cixiiformis 3856 Megachile rotundata
deet in, toxicity of 2924
in USA 354, 1952
on lucerne, in Washington 354
parasitised by
Monodontomerus spp. 2924
Sapyga pumila, in Idaho 1952
Tetrastichus spp. 2924
predators of, traps for 354
preyed on by, Trichodes ornatus, in
Washington 354
Megacyllene robiniae
in USA 1102
on Robinia pseudacacia, in Ohio 11 melanderi, Nomia
Melandrena, taxonomy of 2657 cassava in, arthropod pests of 4592 Coccinellidae in 2840 Sweden 2660

Megastigmus maculipennis
sp. nov., description of 5736
in Japan 5736
parasitising, Dryocosmus kuriphilus, in
Japan 5736

Megastigmus nipponicus
sp. nov., description of 5736
in Japan 5736
parasitising, Dryocosmus kuriphilus, in
Japan 5736 Melangyna
biology of 2312
illustrations of 2312
melania, Euproctis
Melanins, in Daphnis nerii larvae, formation
of 2196 Melanips opacus in Poland 3995

Melanitis leda	Melanotus communis contd.	Melitturga, preyed on by, Micromerus
in Indonesia 3415 on rice, in Indonesia 3415	in USA 1396 on maize, in USA 1396	erivanicus, in Turkey 3980
Melanitis leda ismene	Melanotus cribulosus	mellerborgii, Polytus mellifera, Apis
control of, insecticides for 3962	descriptions of 1396	mellitor, Bracon
in India 2907, 3962	in USA 1396	mellonella, Galleria
in Philippines 892	on maize, in USA 1396	Meloboris, parasitising, Orgyia antiqua, in
on rice	Melanotus depressus	Poland 3592
effects of sowing date on 892 in Manipur 3962	descriptions of 1396 in USA 1396	Meloe, in Turkey 4297 Meloidae
in Orissa 2907	on maize, in USA 1396	in Turkey 4297
Serratia marcescens in, in Orissa 2907	Melanotus dietrichi	in USSR 1345
nelanocephalum, Tapinoma	descriptions of 1396	on crop plants, in India 2313
nelanocephalus, Calathus nelanocephalus, Proreus	in USA 1396	Melolontha
nelanogaster, Drosophila	on maize, in USA 1396 Melanotus lanei	in East Germany 5452 population dynamics of 5452
Melanophila acuminata, infrared reception	descriptions of 1396	Melolontha hippocastani
in 6598	in USA 1396	biology of 2791 control of 2791
Melanophila notata in El Salvador 5167	on maize, in USA 1396	
on Pinus, in El Salvador 5167	Melanotus opacicollis descriptions of 1396	insecticides for 5766 in USSR 2791, 5766
Melanoplus	in USA 1396	on Quercus, in USSR 5766
in grassland	on maize, in USA 1396	melolontha, Melolontha
effects of fertilizers on 347	Melanotus pilosus	Melolontha melolontha
effects of insecticides on 347 Melanoplus bivittatus	descriptions of 1396 in USA 1396	biology of 2791 control of 2791
control of, insecticides for 5980	on maize, in USA 1396	biological 2117
in Canada 5407	Melanotus similis	growth regulators for 2150
in USA 347, 820, 5980	descriptions of 1396	in Switzerland 2117
in grassland effects of fertilizers on 347	in USA 1396	in USSR 2791
effects of insecticides on 347	on maize, in USA 1396 Melanotus verberans	integument in, electrical properties of 5332
on Brassica campestris, development of	descriptions of 1396	Melolonthidae
2466	in USA 1396	control of, insecticides for 4939, 5523
on rape, varietal preferences of 2466	on maize, in USA 1396	in lawns, in USA 4939
on Sinapis alba, development of 2466 Melanoplus differentialis	melanura, Nacerdes meleagris, Notobitus	Melolonthinae, flight activity in, relation of coloration and 2184
in USA 820	melete, Artogeia (Pieris)	melolonthoides, Cochliotis
on sunflower, preferring unhealthy tissue	melete, Pieris (see Artogeia melete)	Melon (cantaloupe and musk)
4057	Melia azedarach	arthropod pests of
Melanoplus femurrubrum	antifeedant activity of extracts of 4371	in California 1488
control of, insecticides for 5980 in Canada 5407	Panonychus elongatus on, in China 4866 Tenuipalpus taonicus on, in China 6442	in Mexico 995 Diaphania indica on, feeding by 2477
in USA 820, 5673, 5980	Melia azedarach (wood), Coptotermes	Liriomyza trifolii on, in Kenya 5415
on soyabean, effects of cropping systems	formosanus in, resistance to, mechanisms	muskmelon necrotic spot virus in, beetle
on 5673	of 1356	transmission of 4027
Melanoplus infantilis control of, biological 929	Meliantriol, in Azadirachta indica 637, 3834	pest control on 995 pest management on 1488
in Canada 929	Meligethes, in Vietnam 1183	Trialeurodes vaporariorum on,
in pastures, in Saskatchewan 929	Meligethes aeneus	development of 197
on Agropyron smithii, damage caused by	control of	watermelon mosaic virus 1 in, aphid
1940 Malanarina packardii	insecticides for 1867, 3516 non-target effects of 3516	transmission of 1002 watermelon mosaic virus 2 in, aphid
Melanoplus packardii control of, biological 929	threshold for 1866	transmission of 1002
in Canada 929, 2314	in Austria 1756	Melon, long (see Cucumis utilissimus)
in pastures, in Saskatchewan 929	in Czechoslovakia 5201	melongenus, Eriophyes
taxonomy of 2314	in Poland 1866, 1867, 3516, 3702	Melyridae in eucalypt forests, in Victoria 5763
Melanoplus sanguinipes control of	in UK 4573 in West Germany 3515	in pine forests, in Victoria 5763
antifeedants for 4173	in woodland, in Czechoslovakia 5201	membranaceus, Leptoglossus (see L.
biological 929	on rape	australis)
insecticide-pathogen mixtures for 237	damage caused by 1866, 3702, 4573	Memory, in <i>Drosophila melanogaster</i> 483 Menazon (S-[(4.6-diamino-1,3.5-triazin-2-
in Canada 929, 2314, 5407 in USA 820, 1421	distribution pattern of 4573 in Austria 1756	yl)methyl] O,O-dimethyl
in pastures, in Saskatchewan 929	in Poland 3516	phosphorodithioate)
insecticide susceptibility in, effects of	in West Germany 3515	against
Microsporidia on 237	Meligethinae	Amrasca biguttula, on potato 2495
Nosema acridophagus in, spore production by 4133	in Vietnam 1183 taxonomy of 1183	Brevicoryne brassicae, on sarson 1534 Myzus persicae 1462
N. cuneatum in, spore production by	Meligramma (see Melangyna)	on potato 2495
4133	Melilotus, Sitona lineatus on, in USA 4580	Thrips tabaci, on tobacco 1554
N. locustae in, interactions with malathion	Melilotus officinalis	in Cales noacki, not toxic 3493
of 237	Acyrthosiphon kondoi on, in Japan 1426	menciana, Rondotia mendosa, Dasychira
on Brassica campestris, development of 2466	Sitona lineatus on, in USA 4580 melinus, Aphytis	menetriesi, Coccinella undecimpunctata
on rape, varietal preferences of 2466	melinus, Strymon	menetriesii, Atrachya
on Sinapis alba, development of 2466	Meliscaeva auricollis	Menispermaceae, Oraesia spp. on, in
population dynamics of 1421	in Poland 2438	Zimbabwe 6443 Menochilus sexmaculatus
preyed on by, Goniopsita oophaga 248 proteins in 764	preying on, Aphididae, in Poland 2438 Meliscaeva cinctella	biology of 6309
taxonomy of 2314	in Poland 2438	control of, insecticides for 2487
Melanoplus sanguinipes atlanis		development in, effects of temperature or
in Canada 2314	preying on, Aphididae, in Poland 2438	
taxonomy of 2314	Melissa oil, in Ascosphaera apis, inhibiting	1351 in India 2487 2821
	Melissa oil, in Ascosphaera apis, inhibiting growth 3683	in India 2487, 2821
nelanopus, Lema (see Oulema melanopus)	Melissa oil, in Ascosphaera apis, inhibiting growth 3683 Melissotarsus, preying on, Andaspis	
nelanopus, Lema (see Oulema melanopus) nelanopus, Oulema (Lema) nelanorhodon, Anacridium	Melissa oil, in Ascosphaera apis, inhibiting growth 3683	in India 2487, 2821 in Taiwan 3316 in coconut plantations, in Karnataka 2821
nelanopus, Lema (see Oulema melanopus) nelanopus, Oulema (Lema) nelanorhodon, Anactidium nelanoscelus, Apanteles	Melissa oil, in Ascosphaera apis, inhibiting growth 3683 Melissotarsus, preying on, Andaspis formicarum, in South Africa 399 Melitta, Dufour's gland in, secretion of 3744	in India 2487, 2821 in Taiwan 3316 in coconut plantations, in Karnataka 2821 on soyabean, in Madhya Pradesh 2487
nelanopus, Lema (see Oulema melanopus) nelanopus, Oulema (Lema) nelanorhodon, Anacridium nelanoscelus, Apanteles nelanostigma, Coeloides	Melissa oil, in Ascosphaera apis, inhibiting growth 3683 Melissotarsus, preying on, Andaspis formicarum, in South Africa 399 Melitta, Dufour's gland in, secretion of 3744 Melittobia acasta	in India 2487, 2821 in Taiwan 3316 in coconut plantations, in Karnataka 2821 on soyabean, in Madhya Pradesh 2487 oocytes in, RNA synthesis in 720
nelanopus, Lema (see Oulema melanopus) nelanopus, Oulema (Lema) nelanorhodon, Anacridium nelanoscelus, Apanteles nelanostigma, Coeloides Melanotrichus althaeae, taxonomy of,	Melissa oil, in Ascosphaera apis, inhibiting growth 3683 Melissotarsus, preying on, Andaspis formicarum, in South Africa 399 Melitta, Dufour's gland in, secretion of 3744 Melittobia acasta control of, cold treatment for 4438	in India 2487, 2821 in Taiwan 3316 in coconut plantations, in Karnataka 2821 on soyabean, in Madhya Pradesh 2487 oocytes in, RNA synthesis in 720 parasitised by, Perilitus coccinellae 1886
nelanopus, Lema (see Oulema melanopus) nelanopus, Oulema (Lema) nelanorhodon, Anacridium nelanoscelus, Apanteles nelanostigma, Coeloides	Melissa oil, in Ascosphaera apis, inhibiting growth 3683 Melissotarsus, preying on, Andaspis formicarum, in South Africa 399 Melitta, Dufour's gland in, secretion of 3744 Melittobia acasta	in India 2487, 2821 in Taiwan 3316 in coconut plantations, in Karnataka 2821 on soyabean, in Madhya Pradesh 2487 oocytes in, RNA synthesis in 720

1034	Review of Ap	plica Emoliology - Scries A 1960 vol. 08
Menochilus sexmaculatus contd.	Mephosfolan contd.	Mesoleius tenthredinis
preying on contd.	with EPN, against, Heliothis armigera	hosts of, defence mechanisms of 1586
Sparassus lamarcki, in Karnataka	1149	parasitising, Pristiphora erichsonii, and
2821	with HCH, against, Heliothis armigera	biological control using, in Minnesota
Mentha	1149	1586
Eupteryx aurata on, in Wales 4484	with leptophos, against, Heliothis	Mesopolobus finlaysoni
E. orientalis on, in Turkestan 2346	armigera 1149	sp. nov., description of 951
Sphecidae on, in Uzbekistan 3337	with methamidophos, against, Spodoptera	hyperparasitising, Eutromula pariana, in
Mentha piperita	littoralis 5723	British Columbia 951
as companion crop for insect control	with methomyl	in Canada 951
3512	against	parasitising
Chrysomela rossia on, development of	Heliothis armigera 1149	Apanteles longicauda, in British
5506	Spodoptera littoralis, on cotton 487	Columbia 951
not protecting cabbage against	with phosfolan	Enytus spp., in British Columbia 951
lepidopterous pests 2471	against	Triclistus emarginalus, in British
Peridroma saucia on, insecticide	Heliothis armigera 1149	Columbia 951 Mesopolobus longicaudae
susceptibility of 4785	Spodoptera littoralis, on cotton 487	sp. nov., description of 951
Mentha pulegium	mercator, Oryzaephilus	hyperparasitising, Eutromula pariana, in
Agrotis ipsilon on 68	mercatorum, Drosophila	British Columbia 951
antifeedant activity of oil from 5996	Mercury, (4-carboxyphenyl)chloro-, in	in Canada 951
not protecting cabbage against	Galleria mellonella, esterase inhibition by	parasitising
lepidopterous pests 2471	3268	Apanteles longicauda, in British
Menthol (see Cyclohexanol, 5-methyl-2-(1-	Mercury chloride (HgCl ₂), against,	Columbia 951
methylethyl)-)	Coptotermes formosanus, in wood 1356	Enytus spp., in British Columbia 951
Menthone (see Cyclohexanone, 5-methyl-2-	Mericserica oberthuri	Triclistus emarginalus, in British
(1-methylethyl)-)	control of, insecticides for 6580	Columbia 951
mento, Asecodes	in India 6580	Mesostigmata
Menzbieria chalcographi	on coffee, in Tamil Nadu 6580	in Norway 4407
in, Pityogenes chalcographus,	meridiana, Empoasca (see E. decipiens)	on Quercus, in Texas 3062
pathogenicity of 4645	meridionalis, Taeniothrips	on Ulmus carpinifolia, associated with
life-cycle of 4645	meridionellae, Agathis	Scolytus 4626
Meobal (see Phenol, 3,4-dimethyl-,	merkeli, Dioryctria Mermithidae	mesoxanthus, Goryphus
methylcarbamate) Mephosfolan (diethyl (4-methyl-1,3-	in	Mesquite (see Prosopis juliflora) messaniella, Phyllonorycter
dithiolan-2-ylidene)phosphoramidate)	Cyrtorhinus lividipennis, in Karnataka	Messor gallus
against	887	foraging in 4434
Agriotes spp., on potato 1022	Heliothis armigera, in India 3418	in Ivory Coast 4434
Atherigona soccata, on sorghum 2404,	Maruca testulalis, in Nigeria 6514	on Digitaria gayana, in Ivory Coast 4434
5041	Merobruchus, food-plants of 1584	on Evolvulus alcinoides, in Ivory Coast
Bemisia tabaci, on tomato 471	Merodon equestris	4434
Carvalhoia arecae, on Areca catechu	control of, insecticides for 5139	Messor regalis
6446	in UK 5139	foraging in 4434
Chilo infuscatellus, on sugar-cane	on Narcissus	in Ivory Coast 4434
1371	damage caused by 5139	messoria, Euxoa
C. partellus	in France 5138	Metacid (see Parathion-methyl)
on maize 1924, 2365, 2896	viruses in, in France 5138	Metacolus, taxonomy of, behavioural
on sorghum 5573	Meromyza nigriventris	characters for 3845
Coccus viridis, on mandarin 5634	on Aegilops, resistance to 5022	Metagonistylum minense
Cryptoblabes gnidiella, on Azolla 858 Earias insulana, on cotton 227, 4384	on Triticum, resistance to 5022 Merulius tremellosus, in, Quercus spp.,	Eldana saccharina not parasitised by 1376
Euproctis melania 3798	associated with wood-boring insects	in Brazil 289
Heliothis armigera 1149	1105	intraspecific competition in 2356
Nephotettix virescens, on rice 1406	merwei, Cryptotermes	parasitised by, Charletonia rocciai, in
Nilaparvata lugens, on rice 5555	mesasiaticus, Aphycus	Brazil 861
Nymphula responsalis, on Azolla 858	mesasiaticus, Peliococcus	parasitising
Orseolia oryzae, on rice 328, 2379	mesembrinae, Pygmephorus (see Siteroptes	Diatraea saccharalis 2356
Pectinophora gossypiella, on cotton	mesembrinae)	and biological control using
227	mesembrinae, Siteroptes (Pygmephorus)	in Brazil 861
pests of cotton 3819	mesembryanthemi, Pulvinaria (Pulvinariella)	in Colombia 5517
Scirpophaga incertulas, on rice 2379	mesembryanthemi, Pulvinariella (see	in Brazil 289
Spodoptera littoralis 2634	Pulvinaria mesembryanthemi)	Metalkamate (see Bufencarb)
on cotton 487, 5718 in Coccinella undecimpunctata, toxicity of	Mesitiopterus, parasitising, Phasmatidae, in North America 6317	metallica, Rhytidoponera Metamasius, on sugar-cane, in Colombia
2634	Mesochorus, parasitising, Plutella xylostella,	5517
in cotton fields, non-target effects of	in Guiarat 4023	Metanastria latipennis
4384	Mesochorus agilis	in Thailand 5175
in fruit trees, translocation of 3194	biology of 1428	on Pinus kesiya, in Thailand 5175
in hop, translocation of 3194	hyperparasitising, Hypera postica, in	Metaphidippus galathea
in maize, persistence of 2896	Colorado 1428	in USA 4919
in rice, not affecting germination 3905	in USA 1428	in apple orchards, in Virginia 4919
in rice-fields	parasitising, Bathyplectes curculionis, in	prey of 4919
causing outbreaks of Nilaparvata lugens	Colorado 1428	Metaphycus
3389	Mesochorus nigripes	in USSR 12
effects on parasitic insects of 328 in Spodoptera littoralis, sublethal effects	biology of 1428	parasitising, Saissetia oleae, and biological
of 4368	hyperparasitising, <i>Hypera postica</i> , in Colorado 1428	control using, in Mediterranean region 3506
photodegradation of 2146	in USA 1428	Metaphycus bartletti, parasitising, Saissetia
resistance to, in	parasitising, Bathyplectes curculionis, in	oleae, and biological control using, in
Spodoptera littoralis, in Egypt 486	Colorado 1428	Mediterranean region 3506
Tetranychus cinnabarinus, development	Mesochorus sylvarum	Metaphycus bazarovi
of 6717	biology of 3597	sp. nov., description of 1182
with chlordane, against, Heliothis	hyperparasitising, Epinotia tedella, in	in USSR 1182
armigera 1149	Denmark 3597	parasitising, Acanthococcus spp., in
with chlorpyrifos, against, Heliothis	in Denmark 3597	Tadzhikistan 1182
armigera 1149	parasitising	Metaphycus helvolus
with DDT, against, Heliothis armigera	Apanteles tedellae, in Denmark 3597	descriptions of 2455
1149	Campoplex cursitans, in Denmark	in Bangladesh 5087
with dicrotophos, against, Heliothis armigera 1149	3597 Exactus tihialis in Denmark 3597	in Greece 5640
with endosulfan, antagonistic 487	Exochus tibialis, in Denmark 3597 Pimplopterus dubius, in Denmark	in USA 2455 parasitising
with endosulan, antagonistic 467 with endrin, against, Heliothis armigera	3597	Ceroplastes pseudoceriferus, in
1149	seasonal abundance of 3597	Bangladesh 5087
		J

fetaphycus helvolus contd.	Meteorus pulchricornis	Methanaminium, 1-carboxy-N,N,N-
parasitising contd. Chloropulvinaria polygonata, in	descriptions of 4107	trimethyl-
Bangladesh 5087	distribution of 4107 hosts of 4107	hydroxide, inner salt in Acyrthosiphon pisum, effects on
Saissetia oleae	in Poland 3592	insecticide susceptibility of 3796
and biological control using	parasitising	in Myzus persicae, effects on insecticide
in Chile 4174	Lymantria dispar 4107	susceptibility of 3796
in France 2457, 3506	in Poland 3592	Methane, bromo-
in Italy 2455 in Greece 5640	taxonomy of	against
fetaphycus lounsburyi	Meteorus japonicus as synonym of 4107	Anastrepha suspensa, in stored grapefruit 2098
in Greece 5640	M. nipponensis as synonym of 4107	Baris lepidii, on horseradish 4026
in Libya 3508	Meteorus versicolor	Ephestia elutella 3638
parasitising	descriptions of 4107	Epiphyas postvittana, in stored apples
Saissetia oleae	distribution of 4107	1120
and biological control using, in Mediterranean region 3506	hosts of 4107 in Poland 3592	Lasioderma serricorne, in herbarium specimens 3615
in Greece 5640	in Yugoslavia 5792	Oryzaephilus surinamensis, in rice grain
letaphycus maritimus	parasites of, in Yugoslavia 5792	228
sp. nov., description of 12	parasitising	pests of stored groundnuts 3145
in USSR 12	Leucoma salicis	pests of wheat grain 3114
parasitising, Parthenolecanium takachihoi, in Maritime Territory 12	in Poland 3592 in Yugoslavia 5792	Phthorimaea operculella, in potatoes 6696
Setaphycus neseri	Lymantria dispar 4107	Plodia interpunctella 584
sp. nov., description of 26	in Yugoslavia 5792	Rhyzopertha dominica 584, 6640
in South Africa 26	Methacrifos (methyl (E)-3-	in stored grain 4666
parasitising, Saissetia nigrella, in South	[(dimethoxyphosphinothioyl)oxy]-2-	Sitophilus granarius 584
Africa 26 letaphycus stanleyi 3506	methyl-2-propenoate)	S. oryzae 6640
taxonomy of 26	against, pests of stored grain 3663 Metham (methylcarbamodithioic acid)	S. zeamais, in maize grain 4121 Sitotroga cerealella, in maize grain
fetaphycus swirskii	against, Agriotes sputator 1711	4121
sp. nov., description of 26	in soil, effects on fauna of 1711	Tribolium spp. 584
in Kenya 26 parasitising, Saissetia oleae 26	Methamidophos (O,S-dimethyl	T. castaneum 3667, 6640
fetarhizium, in, Euproctis similis, in West	phosphoramidothioate)	Trogoderma granarium, in stored
Germany 1104	against	products 1607
letarhizium anisopliae	Agrotis orthogonia, on wheat 6167 A. segetum 6709	T. variabile, in stored grain 4666 fumigation efficiency of 3638
against Agrotis ipsilon 3890	Aphis craccivora, on cotton 4339	in stored fruit, residues of 1121
Cosmopolites sordidus 2981	A. gossypii	in stored products, residues of 585
Mahanarva spp., on sugar-cane 289	on cotton 4339	in Tribolium castaneum, determining
Malacosoma neustria 3158	on sugar-beet 6532	susceptibility to 4658
Aeneolamia varia, in Colombia 6432	Bemisia tabaci, on tomato 5703 Dinoderus japonicus, in bamboo canes	in wheat grain, residues of 3114 resistance to, in, pests of stored products
Lepidiota stigma, in Indonesia 616	860	3109
Leucopholis rorida, in Indonesia 616	Empoasca fabae, on potato 3533	with phosphine, against, Trogoderma
Lymantria dispar, effects of 6682 quail, effects of 6682	Heliothis spp., on Cicer arietinum 1671	granarium 673 Methane, sulfinylbis- (see Dimethyl
Tenebrionidae, in Queensland 1919	H. virescens 2310	sulfoxide)
insect control using 626	Irenimus compressus, on black currant	Methane, tetrachloro-
fetaseiulus occidentalis (see Typhlodromus	6720	against
occidentalis) letasyrphus	Liriomyza sativae, on tomato 473 Myzus persicae	Caryedon serratus 5834 Sitophilus oryzae, in rice grain 589
biology of 2312	on Capsicum 5118	Tribolium castaneum 3667
illustrations of 2312	on sugar-beet 6532	in wheat grain, residues of 3114
fetasyrphus corollae	Nilaparvata lugens, on rice 3961, 5563	with carbon disulfide, against, pests of
development in, effects of humidity and temperature on 3865	pests of cassava 1023 pests of potato 3019, 6232	stored grain 3636 with carbon disulfide, and 1,2-
diel activity in 5480	Plutella xylostella, on cabbage 5657	dichloroethane, against, pests of wheat
energy utilisation in 843	Spodoptera spp., on Cicer arietinum	grain 3114
in East Germany 5480	1671 S. Smarter 5265	with 1,2-dichloroethane
in India 3542 in Iraq 3451	S. frugiperda 5265 S. littoralis 4389	against pests of wheat grain 3114
in apple orchards, in East Germany	Tetranychus cinnabarinus 490	Tribolium castaneum 3667
5480	in Citrus, acephate metabolite 4566	Methane, trichloro-, with tetrachloroethane,
in Eruca sativa fields, in Punjab 3542 in lucerne fields, in Iraq 3451	in tomato fields, effects on parasitic insects of 473	for killing Lepidoptera in light-traps 4853
preying on, Acyrthosiphon pisum 843,	resistance to, in	Methanesulfenamide, 1,1,1-trichloro-N-[[(4-
3521	Myzus persicae, in New South Wales	chloro-2-methylphenyl)imino]methyl]-N-
searching behaviour in 3521	1695, 1700	methyl-, synergist for, pyrethroids 4069
Ietasyrphus latifasciatus in Poland 2438	Therioaphis trifolii, in New South Wales 4541	Methanesulfinothioic acid, S-methyl ester, Acrolepiopsis assectella oviposition
preying on, Aphididae, in Poland 2438	with azinphos-ethyl, in mouse, toxicity of	responses to 2499
fetasyrphus luniger, development in, effects	4392	Methanesulfonic acid, ethyl ester, in
of humidity and temperature on 3865	with azinphos-methyl	Drosophila melanogaster, sensitivity of male germ cells to 61
letasyrphus nitens in Poland 2438	against Spodoptera littoralis 5723	Methanimidamide, N'-(4-chloro-2-
preying on, Aphididae, in Poland 2438	on cotton 5718	methylphenyl)-N,N-dimethyl- (see
letasystox (see Demeton-S-methyl)	in mouse, toxicity of 4392	Chlordimeform)
letasystox (i) (see Demeton-S-methyl)	with bromophos, against, Spodoptera	Methanimidamide, N-(4-chloro-2-methylphenyl)-N'-methyl-, in cotton,
letasystox R (see Oxydemeton-methyl) letathion (see Fenitrothion)	littoralis 5723 with mephosfolan, against, Spodoptera	residues of 1543
feteorus, parasitising, Heliothis armigera,	littoralis 5723	Methanimidamide, N'-(2,4-dimethylphenyl)-
in Israel 1037	with methomyl, against, Spodoptera	N-[[(2,4-dimethylphenyl)imino]methyl]-N
leteorus japonicus, taxonomy of, synonym	littoralis 5723 with monocrotophos, against, Spodoptera	methyl- (see Amitraz) 6,9-Methano-2,4,3-benzodioxathiepin,
of M. pulchricornis 4107 leteorus leviventris	littoralis 5723	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-
in USA 3379	with pyrethroids, interactions of 4389	hexahydro-, 3-oxide (see Endosulfan)
parasitising, Agrotis ipsilon, in Indiana	with tetrachlorvinphos, against,	4,7-Methano-1 <i>H</i> -indene, 2,4,5,6,7,8,8-
3379 leteorus nipponensis, taxonomy of,	Spodoptera littoralis 5723	heptachloro-2,3,3a,4,7,7a-hexahydro-, against, Viteus vitifoliae, on grapevine
synonym of <i>M. pulchricornis</i> 4107		5587

4,7-Methano-1H-indene, 1,4,5,6,7,8,8heptachloro-3a,4,7,7a-tetrahydro- (see Heptachlor)

4,7-Methano-1H-indene, 4,5,6,7,8,8hexachloro-3a,4,7,7a-tetrahydro-, insecticidal activity of enantiomers of 2628

4,7-Methano-1*H*-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro- (see Chlordane)

Chlordane)
2,5-Methano-2H-indeno[1,2-b]oxirene,
2,3,4,5,7,7-hexachloro-1a,1b,5,5a,6,6ahexahydro-, insecticidal activity of
enantiomers of 2628
4,7-Methanoisobenzofuran, 1,3,4,5,6,7,8,8octachloro-1,3,3a,4,7,7a-hexahydro- (see

4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-(2-ethylhexyl)-3a,4,7,7a-tetrahydro-, synergist for, aminocarb 4156 Methanol

in *Drosophila melanogaster* diet, not utilised 6048 in *Megoura viciae*, toxicity of 4165

utilised 0048
in Megoura viciae, toxicity of 4165
Methanone, bis(4-chlorophenyl)-, DDT
photoproduct 5258
1,3,4-Metheno-1H-cyclobuta[cd]pentalene-2pentanoic acid, 1,1a,3,3a,4,5,5a,5b,6decachlorooctahydro-2-hydroxy-γ-οxο-,
ethyl ester (see Kelevan)
1,3,4-Metheno-1H-cyclobuta[cd]pentalene,
1,1a,2,2,3,3a,4,5,5,5a,5b,6decachlorooctahydro- (see Mirex)
1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2one, 1,1a,3,3a,4,5,5a,5b,6decachlorooctahydro- (see Chlordecone)
2,4,6-Metheno-2H-cyclopenta[4,5]pentaleno[1,2-b]oxirene, 2a,3,3,4,5,5ahexachlorodecahydro-, against,
Schistocerca gregaria, on wheat
911
Methidathion (S-[(5-methoxy-2-οxo-1,3,4thiadiazol-3(2H)-yl)methyl] O,O-dimethyl
phosphorodithioate)
against

against

Acanthococcus aceris, on apple 4335 Anarsia lineatella, on peach 5615 Anthonomus pomorum, on apple 646 Archips rosanus, on apple 4551 Bemisia tabaci, on tomato 5703 Beinsia taoaci, on tomato 5705
Blastophaga psenes, on fig 4000
Ceroplastes rusci, on fig 4000
Cydia molesta, on peach 2966, 5615
C. pomonella 6695
Eupoecilia ambiguella, on grapevine 5589

Eutetranychus orientalis, on Citrus 2450

Hypera postica, on lucerne 4927 Lampra festiva, on Thuja 2575 Lobesia botrana, on grapevine 558 Oebalus insularis, on rice 2299 Pandemis cerasana, on apple 4551 Planococcus citri, on Citrus 3500, 3800

Pollinia pollini, on olive 6494 Saissetia oleae, on olive 986

Smicronyx fulvus, on sunflower 6259 in cherry, residues of 5582 in Citrus, residues of 974

in citrus groves, non-target effects of 975, 3800

in strawberry, residues of 5582 photolysis of 1713

with chlorobenzilate

in parasitic insects, toxicity of 5631 in predatory insects, toxicity of 5631 with endosulfan, against, pests and diseases of cauliflower 1498 with mancozeb, against, pests and diseases of cauliflower 1498

with oil emulsion

Planococcus citri, on Citrus 5636 Saissetia oleae, on olive 986 Methiocarb (3,5-dimethyl-4-

(methylthio)phenyl methylcarbamate)

Agrotis ipsilon 6168

Anthonomus signatus, on strawberry 364

Irenimus compressus, on black currant Lygus lineolaris, on strawberry 364

Methiocarb contd. against contd.

Oscinella frit, on maize 2891 in barley, determination of 2273

L-Methionine

in Metopolophium dirhodum, and in oats 874

in silkworm silk, not found 744 in Spodoptera littoralis hemolymph, effects of DDT on 3818

Nilaparvata lugens feeding responses to 3413

Methomyl (methyl N-[[(methylamino)carbonyl]oxy]ethanimido-thioate)

Adisura atkinsoni, on Lablab purpureus 426

Agrotis spp. on lettuce 1052 on maize 1052 1052

Anthonomus signatus, on strawberry 364

Aonidiella aurantii 4568 Aphidoidea, on Capsicum Aphis gossypii, on sugar-beet Archips rosanus, on apple 45 Chilo suppressalis 1148 Choristoneura occidentalis, on 6532 4551

Pseudotsuga 3707 Cnaphalocrocis medinalis, on rice 3942

Empoasca fabae, on soyabean 6197 E. formosana, on tea 2045 Euproctis melania 3798 Heliothis armigera 1149, 6705 on Lablab purpureus 426 Lygus spp., on lucerne 2297 L. lineolaris, on strawberry 364 Mamestra brassicae, on cauliflower 4024

4024

Mythimna convecta, in pastures 927

Myzus persicae
on potato 6233
on sugar-beet 6532
Nesidiocoris tenuis 6573
Nezara viridula, on Vigna radiata 439
Pandemis cerasana, on apple 4551
Plathypena scabra, on soyabean 6197
Scirtothrips dorsalis, on tea 5731
Spodontera exigua, on cotton 3552

Spodoptera exigua, on cotton 3552 S. frugiperda 5265 on Cynodon dactylon 1423 S. littoralis 2634, 3045, 4389, 5723 on cotton 487, 5718

S. mauritia, in pastures 927 Thymelicus lineola, on Phleum 3978

Trialeurodes vaporariorum 1870
on ornamental plants 5734
Trichoplusia ni, on cabbage 2001
Typhlocyba pomaria, on apple 6468
determination of 5971

formulations of dusts 1140

microcapsules 3215 in Coccinella undecimpunctata, toxicity of 2634

in Leptomastix dactylopii, toxicity of 2332

in Neoseiulus fallacis, toxicity of 376 in Prospaltella lahorensis, toxicity of 3491

in soil

in soil
adsorption of 4394
degradation of 5986
in Spodoptera littoralis
effects of selection pressure on
susceptibility to 3045
effects on amino acids of 4362, 4363
effects on fats of 4362, 4363
effects on offspring of 4375
sublethal effects of 4376, 4377
in Spodoptera litura, post-treatment
temperature not affecting susceptibility
to 5259
in Typhlodromus part, toxicity of 376

in Typhlodromus pyri, toxicity of 376 resistance to, in, Myzus persicae, in New South Wales 1700 synergists for, piperonyl butoxide as 1700

with chlordane against, Heliothis armigera 1149 antagonistic 1149 Methomyl contd. with chlorpyrifos against

Heliothis armigera 1149

Spodoptera littoralis, on cotton 487 in Spodoptera littoralis, sublethal effects of 4388

with DDT, against, Heliothis armigera 1149 with dicrotophos, against, Heliothis armigera 1149

with diflubenzuron, against, Spodoptera littoralis, on castor 4374 with endosulfan, antagonistic 487

with endrin

against

Heliothis armigera 1149 Spodoptera littoralis 225 with EPN, against, Heliothis armigera

1149

with fenvalerate, against, Heliothis spp., on cotton 3552 with fungicides, against, pests and diseases of Chrysanthemum 4613

with HCH, against, Heliothis armigera 1149

with leptophos, against, Heliothis armigera 1149 with mephosfolan

against

Heliothis armigera 1149

Spodoptera littoralis, on cotton 487 with methamidophos, against, Spodoptera littoralis 5723

with methoprene, against, Heliothis armigera 6705

with monocrotophos

against

Spodoptera littoralis 225 on cotton 487

with phosfolan against

Heliothis armigera 1149 Spodoptera littoralis, on cotton 487 antagonistic 1149

in Spodoptera littoralis, sublethal effects of 4388 with pyrethroids, interactions of 4389

with toxaphene, against, Spodoptera littoralis 225

with triazophos, antagonistic 487 **Methoprene** (1-methylethyl (2E,4E)-11-methoxy-3,7,11-trimethyl-2,4-

dodecadienoate)

against

Dacus oleae, on olive 210

Ephestia cautella 3633, 4169
in groundnuts 6665

E. elutella, in stored tobacco 3664
Heliothis armigera 6705
Lasioderma serricorpe, in stored

Lasioderma serricorne, in stored tobacco 3664

Lycoriella auripila, in mushroom compost 4571 Megaselia halterata, in mushroom

compost 4571 Spodoptera littoralis 4378 Tribolium confusum, in wheat grain

for regulating development and silk production in *Bombyx mori* 2844 in *Bombyx mori*, effects on silk of 1901

in Choristoneura fumiferana, effects on responses to sex pheromone of 1228, 3753

in Choristoneura occidentalis, effects on reproduction of 5155

in Coptotermes formosanus, no effects from 1714

in Dendroctonus frontalis, effects of 6729

in Drosophila melanogaster, effects on vitellogenesis of 759 in Dysdercus cingulatus, effects of 1718 in Henosepilachna vigintioctopunctata, effects on ovarian development of

6075 in Hippodamia convergens, stimulating flight activity 6081

in Hyphantria cunea, interactions between nuclear polyhedrosis virus and 6728

Subject Index		1037
Methoprene contd.	Metopolophium dirhodum contd.	Mexico contd.
in Locusta migratoria, effects on	on grain crops	Anastrepha ludens in 4796
vitellogenesis of 55	damage caused by 2876, 3373	natural enemies of 3356
in Mamestra brassicae, effects on pupal diapause of 758	in England 1388	on Citrus 1666
in Microctonus aethiopoides, effects of	in Kazakhstan 3376 on wheat	on mango 2305 Anthonomus spp. in 2666
6241	damage caused by 298	A. hunteri in, on Hampea 8
in Microctonus colesi, effects of 6241	in Brazil 1014, 5527	Asilidae in 3855
in mouse cell lines, toxicity of 4168	in Chile 5998	Athous spp. in 17
in Myzus persicae, effects of 1717	varietal preferences of 6359	Atta mexicana in 5459
in Reticulitermes flavipes, effects of 1714	outbreaks of 2330 parasites of	bean in, arthropod pests of 1010 biological control in 1646
in Reticulitermes virginicus, effects of 1714	in England 1388, 5519	Bruchidae in 1584
in Schistocerca gregaria, effects of 3330	in Kazakhstan 3376	Ceratitis capitata in 4563
in Spodoptera littoralis	parasitised by, Aphidius uzbekistanicus	not established 1663
effects of age on susceptibility to 4367	2886 population dynamics of 1388	Cerotoma ruficornis in, on Phaseolus 2301
effects of temperature on effects of	predators of	Chironomus spp. in, on Eichhornia
4367	effects of insecticides on 5998	crassipes 1665
effects on larval-pupal transformation of 3280	in England 1388	Colaspis spp. in, natural enemies of 165
with 5-[[5-(3-ethyl-3-methyloxiranyl)-3-	seasonal abundance of 2875	Contrachelus spp. in, on avocado 400
methyl-2-pentenyl]oxy]-1,3-	soyabean mosaic virus in, transmission of 1014	Corticoris spp. in 1580 cotton in, arthropod pests of 1050
benzodioxole, against, Ceratitis	traps for 2875	cotton pests in, natural enemies of 2298
capitata 2148	Metopolophium festucae	Dendroctonus spp. in, natural enemies of
with methomyl, against, Heliothis	hyperparasites of, in England 5519	1649
armigera 6705 Methoxychlor (1,1'-(2,2,2-	in UK 5519, 5575 on pasture plants, in UK 5575	D. frontalis in 558 Diabrotica spp. in, natural enemies of
trichloroethylidene)bis[4-	parasites of, in England 5519	1651
methoxybenzene])	Metox (see Methoxychlor)	D. balteata in, on Phaseolus 2301
against	metricus, Polistes	Diatraea spp. in, on maize 2304
Anthonomus pomorum, on apple 6465	Metriona bicolor	Eichhornia crassipes in, arthropod
A. rubi, on strawberry 6448 Macrodactylus subspinosus, on	colour change in 69 development in 69	enemies of 1667 Empoasca spp. in, on Phaseolus 2301
grapevine 3457	mating in 69	Enoclerus spp. in 2171
pests of lucerne 5048	Metrosideros collina	Eudiagogus pulcher in, on Sesbania 190
Prionoxystus robiniae, on Fraxinus	arthropods associated with, in Hawaii	Heliothis spp. in
3085	1829	on Cicer arietinum 1671
in foodstuffs, residues of 3210 in lucerne fields, effects on pollinators of	Phytophthora cinnamomi in, damage caused by 4643	on cotton 1662 H. virescens in, on cotton 2295
5048	Plagithmysus bilineatus on, damage	H. zea in, on Cicer arietinum 2302
resistance to, in, pests of seeds 6182	caused by 4643	Hydrophilidae in, on Eichhornia crassipe
technical, contaminants in 3205	Metzneria lappella	1665
with diazinon, against, Macrodactylus	hyperparasites of 6338 in Canada 6338	Hypera postica in, on lucerne 1655 insect pests in 1647
subspinosus, on grapevine 3457 with propoxur, against, Trialeurodes	on Arctium, in Canada 6338	Lygus spp. in, on lucerne 2297
vaporariorum 1870	parasites of 6338	maize in, arthropod pests of 881
Methyl bromide (see Methane, bromo-)	Mevinphos (methyl 3-	maize pests in, natural enemies of 1653
Methyl-demeton-O (see Demeton-O-methyl)	[(dimethoxyphosphinyl)oxy]-2-butenoate)	melon in, arthropod pests of 995
Methyl-demeton-S (see Demeton-S-methyl) Methyl eugenol (1,2-dimethoxy-4-(2-	against Agrotis segetum 6709	Microlarinus spp. in, on Tribulus cistoide 1667
propenyl)benzene)	Cydia molesta, on peach 394	Oebalus insularis in, on rice 2299
attractant for	Frankliniella occidentalis, on tomato	Ophraella spp. in, on Parthenium
Dacus dorsalis 934	1483	hysterophorus 1664
Tephritidae 3701	Pterochloroides persicae 5614 in tobacco, residues of 5728	Phanaeus halffterorum in, on fungi 176 Phyllophaga spp. in, natural enemies of
in almond hulls 6453 in carrot 4172	with parathion	1660
Psila rosae responses to 4172	against	Pityophthorus rubidus in, on Pinus 157
Methyl Gusathion (see Azinphos-methyl)	Archips rosanus, on apple 4551	Schistocerca spp. in 4426
Methyl paraben (see Benzoic acid, 4-	Pandemis cerasana, on apple 4551	Schizaphis graminum in, on wheat 2306
hydroxy-, methyl ester) Methyl-parathion (see Parathion-methyl)	Mexacarbate (4-(dimethylamino)-3,5- dimethylphenyl methylcarbamate)	Sitobion avenae in, on wheat 2306 Smicronyx lutulentus in, on Parthenium
Methyl phoxim (see Phoxim-methyl)	against	hysterophorus 1664
Methylparathion (see Parathion-methyl)	Choristoneura occidentalis, on	sorghum in, insect pests of 923
Methyltransferase, juvenile hormone acid, in	Pseudotsuga 3707	soyabean in, arthropod pests of 1015
Hyalophora cecropia accessory glands 4784	Magicicada spp., on apple 3470 Orgyia pseudotsugata	Spodoptera spp. in, on Cicer arietinum 1671
neticulosa, Phlogophora	on Abies 5215	S. exigua in
netorella, Tinea (see T. translucens)	on Pseudotsuga 5215	natural enemies of 1654
Metopolophium, barley yellow dwarf virus in, transmission of 3440	Spodoptera littoralis 226	on Cicer arietinum 2302
	resistance to, in, Spodoptera littoralis, in	on lucerne 2297
Metopolophium dirhodum biology of 298	Egypt 486 synergists for 226	S. frugiperda in natural enemies of 1654
composition of food-plants and 874	Mexican tea (see Chenopodium	on maize 2303, 2304
control of	ambrosioides)	strawberry in, arthropod pests of 995
biological 5998	mexicana, Atta	sugar-cane in, pest control on 1672
threshold for 298	mexicanus, Myrmecocystus	Tetranychus spp. in, on Eichhornia
Entomophthora spp. in, not affected by fungicides 5524	Mexico Aceria parthenii in, on Parthenium	crassipes 1665 Therioaphis trifolii in, on lucerne 2296,
flight activity in 6360	hysterophorus 1664	2307
hyperparasites of, in England 1388, 5519	Acmaeodera spp. in 4306	vegetable crops in, arthropod pests of
in Brazil 1014, 5527	Acyrthosiphon pisum in, on lucerne	995
in Chile 5998	2307	meyricki, Leucoptera MGK Synergist 264 (see 4,7-Methano-1H-
in East Germany 2876 in Netherlands 298	Aeneolamia spp. in, on pasture grasses 2308	isoindole-1,3(2H)-dione, 2-(2-ethylhexyl)
in Poland 2875, 3373	agricultural entomology in 2294	3a,4,7,7a-tetrahydro-)
in South Africa 6360	Aleurocanthus woglumi in 980	mica, Recilia
in Sweden 5521	on Citrus 1652	micans, Dendroctonus
in UK 1388, 2330, 5519 in USSR 3376	Aleurothrixus floccosus in, on Citrus 1652	michaeli, Caloglyphus Michigan
in West Germany 5524	Allantinae in 1178	Carabidae in, in oak forests 5198
low-temperature survival in 3761	Amblycerus acapulcensis in, on	Conotrachelus affinis in, on Carya glabra
on barley, varietal preferences of 6359	Caesalpinia 5199	5594

Michigan contd.	Microlepidoptera contd.	Microtermes
Cydia molesta in, on apple 5073	in Wales 4307	in Malagasy Republic 2843
Formicidae in 240	on Eucalyptus, in Vietnam 5166	land use as affecting 134
Hypera postica in, natural enemies of	Microlestes linearis	predator mandibular-gland secretions not
4538 Kermes kingji in on Overcus 4633	in USA 1394, 6196 in maize fields, in Iowa 1394	repelling 1876 Microtermes obesi
Kermes kingii in, on Quercus 4633 Lygus lineolaris in, on lucerne 6244	in soyabean fields, in Iowa 6196	in India 869, 1896
Magicicada spp. in 2244	seasonal abundance of 1394, 6196	on wheat, damage caused by 869
Olethreutes mysteriana in, on Ulmus	Microlophium, taxonomy of, hemolymph	Microtermes unicolor
1187	proteins as characters for 1845	colony development in 1895
Oulema melanopus in 6139, 6263	Micromerus erivanicus	fungus gardens of 1895
Thymelicus lineola in, on grasses 6245 Micraspis cardoni	in Turkey 3980	in Pakistan 1895 swarming in 1895
in India 2821	on sainfoin, damage caused by 3980 on Vicia, damage caused by 3980	Microtermes usambaricus
in coconut plantations, in Karnataka	preying on	in Nigeria 134
2821	Anthophora spp., in Turkey 3980	land use as affecting 134
preying on, Sparassus lamarcki, in Karnataka 2821	Melitturga spp., in Turkey 3980	Microterys narzykulovi sp. nov., description of 1182
Micraspis discolor	Micromus sauteri	in USSR 1182
in Bangladesh 6326	in Taiwan 3316	parasitising
preying on	preying on, <i>Hysteroneura setariae</i> , in	Acanthococcus spp., in Tadzhikistan
Aphis craccivora 6326	Taiwan 3316 Micromus tasmaniae (see also	1182
A. gossypii 6326 Myzus persicae 6326	Austromicromus tasmaniae)	Eriococcus spp., in Tadzhikistan 1182 Microtheca ochroloma
Micraspis frenata	in New Zealand 1444	in Argentina 138
in Australia 2546	preying on, Synanthedon tipuliformis, in	in Uruguay 138
in cotton-field borders, in Queensland	New Zealand 1444	in USA 138
2546 Microcolyntris	Micronecta scutellaris	on crucifers 138
Microcalyptris in USA 2168	biology of 1358 descriptions of 1358	taxonomy of, characters distinguishing M. picea and 138
taxonomy of 2168	in India 1358	Microtheca picea
microcasis, Megalocypha	Micronesia, cassava in, arthropod pests of	in USA 138
Microcephalothrips abdominalis	4592	taxonomy of, characters distinguishing M.
in India 5468 preyed on by, Anthocoridae, in India	Microphanurus (see Trissolcus) Microphanurus striaticeps, taxonomy of,	ochroloma and 138 Microthrix inconspicuella
5468	transferred to Aporophlebus 5288	biology of 4481
Microcerotermes beesoni, in wood, species	Microplitis, parasitising, Chrysodeixis	food-plants of 4481, 4482
preferences of 2572	chalcites, in New Zealand 4823	in South Africa 4481
Microcerotermes crassus, menthol in,	Microplitis croceipes	on apple, development of 4482
toxicity of enantiomers of 6331 Microcerotermes turkmenicus	attractants for, host kairomones as 1748 parasitising, Heliothis zea 1748	on Emex australis and biological control using 4482
biology of 1897	Microplitis kewleyi	damage caused by 4481
in USSR 1897	in USA 3379	on Emex spinosa, development of 4482
Microcharops, parasitising, Anticarsia	parasitising, Agrotis ipsilon, in Indiana	on rhubarb, development of 4482
gemmatalis, in Brazil 5672	3379 Microplitis maculinannis	on Rumex crispus, development of 4482
Micrococcus lysodeikticus, bactericidal activity of insect hemolymph for 1642	Microplitis maculipennis in India 3033	on Rumex pulcher, in South Africa 4481 Microvelia, preying on, rice hoppers, in
Microctonus, parasitising, Stelidota	parasitising, Achaea janata, in India	Philippines 3908
geminata, in Ohio 365	3033	Mictis tenebrosa
Microctonus aethiopoides	Microplitis marshalli	distribution of 796
host oviposition as affected by 355	parasitising Autographa gamma 2335	in India 796, 1839 Middle Fast Coccoides in 6012
insect growth regulators in, effects of 6241	Autographa gamma 2335 Mamestra brassicae 2335	Middle East, Coccoidea in 6012 Migration
larval development in, effects of	Microplitis ophiusae (see M. maculipennis)	Agrotis ipsilon 4332
temperature on 4922	Microplitis rufiventris	Amyna octo 4843
parasitising, Hypera postica, and	in Egypt 4477	A. punctum 4843
biological control using, in New York 355	parasitised by, <i>Pteromalus semotus</i> , in Egypt 4477	Artogeia rapae 3770 Choristoneura fumiferana 5745, 5913
pupal development in, effects of	parasitising	Chortoicetes terminifera 6273, 6274
temperature on 4922		
Microctonus amaraphagus	Spodoptera littoralis 5426	Danaus plexippus 2249
sp. nov., description of 5467	in Egypt 4477	Heterocera 2740
in IISA 5467	in Egypt 4477 rearing of, techniques for 5426	Heterocera 2740 Hymenia recurvalis 4843
in USA 5467 parasitising, Amara spp., in South Dakota	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824
in USA 5467 parasitising, Amara spp., in South Dakota 5467	in Egypt 4477 rearing of, techniques for 5426	Heterocera 2740 Hymenia recurvalis 4843
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brasicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria migratorioides, Locusta migratoria Mikania, control of, biological 6002
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microgasterinae, on Tribulus cistoides, in	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogcia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratorioides, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Mikania, control of, biological 6002 Milbex (see Chlorfenethol, with
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in Microlarinus, on Tribulus cistoides, in Mexico 1667	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brasicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratorioides, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milbax (see Chlorfenethol, with chlorfensulphide)
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareynii	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Mikania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milesiinae, Batesian mimicry in 4918
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in Microlarinus, on Tribulus cistoides, in Mexico 1667	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogcia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratorio des, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milbex (see Chlorfenethol, with chlorfensulphide) Millesiinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareyni on Tribulus terrestris and biological control using in California 855	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microsetia sexguttella (see Chrysoesthia sexguttella)	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratorioides, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Mikania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milesiinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for,
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareyni on Tribulus terrestris and biological control using in California 855 in USA 1910	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscotia sexguttella (see Chrysoesthia sexguttella) Microsporidia	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milkania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milesiinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for, Ostrinia nubilalis 813
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in Mexico 1667 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareynii on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlarinus lypriformis	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia sexguttella (see Chrysoesthia sexguttella) Microsporidia in	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratorioides, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milbex (see Chlorfenethol, with chlorfensulphide) Milesiinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for, Ostrinia nubilalis 813 Millepede (see Diplopoda)
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareynii on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlarinus lypriformis on Tribulus terrestris	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microsetia sexguttella (see Chrysoesthia sexguttella) Microsporidia in Bombyx mori 5495	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratorioides, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Mikania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milestinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for, Ostrinia nubilalis 813 Millepede (see Diplopoda) Millet
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in Mexico 1667 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareynii on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlarinus lypriformis	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia sexguttella (see Chrysoesthia sexguttella) Microsporidia in	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milkania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milestinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for, Ostrinia nubilalis 813 Millepede (see Diplopoda) Millet arthropod pests of, in Gambia 4182
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareynii on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlarinus lypriformis on Tribulus terrestris and biological control using in California 855 in USA 1910	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia sexguttella (see Chrysoesthia sexguttella) Microsporidia in Bombyx mori 5495 Costelytra zealandica, effects on insecticide susceptibility of 5873 Datana integerrima, in USA 6223	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milkania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milesiinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for, Ostrinia nubilalis 813 Millepede (see Diplopoda) Millet arthropod pests of, in Gambia 4182 Catantops haemorrhoidalis on, feeding by 5455
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareyni on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlarinus lypriformis on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlarinus lypriformis on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlepidoptera	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogcia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 Coscella parastasiae in Sri Lanka 1175 Datana in Seguttella (see Chrysoesthia sexguttella) Microsporidia in Bombyx mori 5495 Costelytra zealandica, effects on insecticide susceptibility of 5873 Datana integerrima, in USA 6223 Lymantria dispar, in Portugal 4652	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milkania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milestinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for, Ostrinia nubilalis 813 Millepede (see Diplopoda) Millet arthropod pests of, in Gambia 4182 Catantops haemorrhoidalis on, feeding by 5455 Raghuva albipunctella on, in Senegal
parasitising, Amara spp., in South Dakota 5467 Microctonus colesi, insect growth regulators in, effects of 6241 Microctonus epitricis in USA 466 parasitising, Systena blanda, in California 466 Microctonus vinelandicus sp. nov., description of 5467 in Canada 5467 parasitising, Harpalus affinis, in Ontario 5467 Microgasterinae, venom apparatus in 2672 Microlarinus, on Tribulus cistoides, in Mexico 1667 Microlarinus lareynii on Tribulus terrestris and biological control using in California 855 in USA 1910 Microlarinus lypriformis on Tribulus terrestris and biological control using in California 855 in USA 1910	in Egypt 4477 rearing of, techniques for 5426 Microplitis similis in India 2337 parasitising, Agrotis ipsilon, in Bihar 2337 Microplitis tuberculifera parasitising Artogeia rapae 2335 Autographa gamma 2335 Mamestra brassicae 2335 Pieris brassicae 2335 microplus, Boophilus Microscolia hydrocephala in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia parastasiae in Sri Lanka 1175 parasitising, Scarabaeidae, in Sri Lanka 1175 Microscolia sexguttella (see Chrysoesthia sexguttella) Microsporidia in Bombyx mori 5495 Costelytra zealandica, effects on insecticide susceptibility of 5873 Datana integerrima, in USA 6223	Heterocera 2740 Hymenia recurvalis 4843 Neacoryphus bicrucis 4824 Nilaparvata lugens 895, 2383, 2386, 2403 Papilio demoleus 1287 Phorodon humuli 1912 Pieris brassicae 3770 Schistocerca gregaria 5905 Sogatella furcifera 895 Spodoptera exempta 5905, 5908 Zeiraphera diniana 3585, 3587 role in population dynamics of 1272 migratoria, Locusta migratoria mikado, Sympiesis (see S. dolichogaster) Milkania, control of, biological 6002 Milbex (see Chlorfenethol, with chlorfensulphide) Milesiinae, Batesian mimicry in 4918 Milk, leptophos in, effects of cheese production on 5983 Milk substitutes, diet component for, Ostrinia nubilalis 813 Millepede (see Diplopoda) Millet arthropod pests of, in Gambia 4182 Catantops haemorrhoidalis on, feeding by 5455

		1039
lillet (stored grain) Corcyra cephalonica in, development of	Miridae contd.	Mite contd.
6657	on grasses, effects of plant structure complexity on 4528	in soil, effects of insect growth regulators on 2478
pest control in, traditional methods of 3622	on Solidago, in New York 2855 on sugar-beet, in Egypt 2489	in stored grain 1609 relation of water content and 2158
Sitophilus zeamais in, not ovipositing 2086	on sunflower, in Bulgaria 6558 on wheat, damage caused by 3374	on pineapple, damage caused by 4013 on plants, in Nigeria 6269
ilvipennis, Coleophora (Suireia)	preying on, Psylla pyri, in France 5607	on Quercus, in Texas 3061, 3062
ilvipennis, Suireia (see Coleophora milvipennis)	traps for 379 Mirperus torridus	on trees, extracting from bark of 4318 parasitising
limegralla coeruleifrons	in Nigeria 454	Apis spp. 4978
control of, insecticides for 5509 in India 5509	on Vigna unguiculata, in Nigeria 454 mirzai, Anagyrus	Pentodon idiota, in Iran 1380 Sesamia spp., in Iran 1380
on turmeric, in Maharashtra 5509	Miscanthus	phytophagous, rearing cage for 1857
timosa, Stator spp. on 1584 timosestes nubigens, on Acacia 1584	Cavelerius saccharivorus on, in Japan 5514	preyed on by, Scydmaenidae 4732 preying on
inax, Dacus	Mychiothrips fruticola on, in Japan 4729	Achatina fulica 4983
indara, Athetis (Proxenus) indara, Proxenus (see Athetis mindara)	Miscogastrinae, in Indian subcontinent 702 misera, Sarcophaga	Eldana saccharina, in South Africa 1378
inense, Metagonistylum	Mississippi Actenodes davidi in, on Gleditsia 1583	molluscs 4449 water balance in, review 3283
linerals , in <i>Bombyx mori</i> diet, requirement for 2698	Acyrthosiphon kondoi in, on lucerne	Mite infestations, in man 6642
inerva, Draeculacephala	Anthonomus grandis in, on cotton 2037,	Mitomycin C, in Galleria mellonella, not preventing hemocyte destruction by
inians, Nephelodes	2513, 2544	Chilo iridescent virus 3163
iniata, Oedipoda inima, Carulaspis	Anticarsia gemmatalis in, on soyabean 5665	mitratus, Prionomitus mitratus, Teleogryllus
inimum, Monomorium	Araneae in, in cotton fields 1046	Mobil 9087 (see Benzene, 1-(1,1-
iniosa, Orthosia inistrana, Eulia	cotton in, pest control on 2521 Dendroctonus frontalis in 1210	dimethylethyl)-4-[1-(4-ethoxyphenyl)-2- nitrobutyl]-)
Innesota Choristoneura pinus in, on Pinus 510	on Pinus 528 Eudiagogus rosenschoeldi in, on Sesbania	Mocap (see Ethoprophos) Mocis
Cicada spp. in, on Populus 3084	1909	parasitised by
Diabrotica spp. in, on maize 5540 D. virgifera in 6248	Heliothis spp. in natural enemies of 2528	Euphorocera claripennis, in Cuba 3853
Empoasca fabae in, on potato 3533, 6232	on cotton 2513, 2514	Rogas spp., in Cuba 3853
maize grain in, insect pests of 6170 Malacosoma disstria in 4831, 6213	H. virescens in on cotton 2515, 4060	Mocis disseverans descriptions of 4532
natural enemies of 2568	on Geranium 4606	in USA 4532
Myzus persicae in, on potato 3535, 6232 Pikonema alaskensis in	H. zea in, on Geranium 4606 Lygus lineolaris in, on cotton 4600	on grasses, in Florida 4532 Mocis frugalis, in India 2756
natural enemies of 5211 on <i>Picea</i> 1570	Monellia caryella in, on pecan 2943 M. nigropunctata in, on pecan 2943	Mocis latipes descriptions of 4532
Pristiphora erichsonii in	Neurocolpus nubilus in, on cotton 4600	in Brazil 6410
natural enemies of 1586 on <i>Larix</i> 5214	Prionoxystus robiniae in 1569, 6202 Solenopsis invicta in, on maize 2366	in USA 4532 on grasses, in Florida 4532
Ptychopteridae in 2763	Spodoptera frugiperda in, on cotton 2513	on rice, in Brazil 6410
Saperda inornata in, on Populus 3084 Tipulidae in 2763	Xyletinus peltatus in, in structural wood 3136, 3137	Mocis marcida descriptions of 4532
ninor, Berytinus ninor, Blastophagus (see Tomicus minor)	Missouri Actenodes davidi in, on Gleditsia 1583	in USA 4532 on grasses, in Florida 4532
inor, Labia	Aphis craccivora in, on Vigna radiata	Mocis texana
ninor, Tomicus (Blastophagus) Iint (see Mentha)	435 Cicadellidae in, on <i>Festuca</i> 1945	descriptions of 4532 in USA 4532
Aint, pepper (see Mentha piperita) ninusculus, Sosylus	Conophthorus echinatae in, on Pinus 1577	on grasses, in Florida 4532 modestus, Ceratocapsus
inuta, Frankliniella	Cyrtepistomus castaneus in, on Quercus	modulatus, Nephotettix
ninuta, Hoplocampa ninuta, Oligota	6150 Empoasca fabae in, on soyabean 2012	Moghania macrophylla Kerria lacca on, effects of plant growth
unuta, Temelucha unutissima, Pachygaster	Frankliniella tritici in, on soyabean 1511 Hypera postica in, natural enemies of	regulators on 2345 Sthenias madurae on, in Bihar 2576
uinutus, Orius	352	Molasses
ninutus, Paraseiulus ninutus, Stenocranus	Lepidoptera in, on Quercus 6224 Melanotus spp. in, on maize 1396	attractant for, Anastrepha ludens 1666 diet component for, Ostrinia nubilalis
inutus, Tetrastichus	Psilocorsis spp. in, on Quercus 561	813 in fly baits, repellent to honeybees 678
AIPC (see Isoprocarb) Aipcin (see Isoprocarb)	Scolytus quadrispinosus in 2052 Sericothrips variabilis in, on soyabean	in insect virus formulations 6619, 6620
Airal (see Isazophos) uranda, Saissetia	Smicronyx fulvus in, on sunflower 2033	with carbaryl 283, 3007, 3879, 3947, 3954, 4105, 4885, 6381
Aire, Araneae in, in Finland 800	soyabean in, pest control on 459	in Vigna unguiculata, toxicity of 455
direx (1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-1,3,4-metheno-	Trichoplusia ni in on cabbage 2001	Mole-cricket (see Gryllotalpa) Molecular structure-biological activity
1H-cyclobuta[cd]pentalene)	on kale 3514 wood-boring insects in, on Quercus 1105	relationship aryl terpenoid ethers, juvenile hormone
Atta cephalotes 244	Xyleborus celsus in, on Carya 543	activity 3230
Pheidole megacephala 5264 Solenopsis invicta 643	missouriensis, Diogmites Misumenops, preying on, Heliothis virescens,	benzoylphenylureas, chitin synthesis inhibition 1164
formulations of 643	in Texas 4603	DDT-pyrethroids, insecticidal activity 659
in birds, residues of 643 in cotton fields, to kill ants 4602	Misumenops oblongus in USA 4919	dill apiole ester derivatives, pyrethrins
in fish, residues of 643 in Reticulitermes flavipes, variation in	in apple orchards, in Virginia 4919 prey of 4919	synergism 4151 phenyl methylcarbamates
susceptibility to 4467	Mite	insecticidal activity and
use of, legislation on 643 Airidae	acaricide resistance in, detecting and measuring of 3711	anticholinesterase activity 1151 insecticidal activity and
control of, non-target effects of 2043	acaricides in, selectivity of 651 in Hungary 3313	acetylcholinesterase inhibition 1696 pyrethroids, insecticidal activity 654
in Brazil 4854 in Galápagos Islands 6127	in USA, book 6006	molesta, Cydia (Grapholita; Laspeyresia)
in Georgia (USA) 2268 in cacao plantations, in Ghana 5359	in agricultural soils, factors affecting 2758	molesta, Grapholita (see Cydia molesta) molesta, Laspeyresia (see Cydia molesta)
in vineyards, in Pennsylvania 5059	in Areca catechu nuts, in Karnataka	molitor, Tenebrio molliculus, Megalocoleus
in walnut orchards, in Italy 5592 on cacao, in Ghana 5359	in foodstuffs, extracting of 5220	Mollicutes 2101, 5239, 5835, 5836, 6668

morator, Dyscinetus

Mollicutes contd.	Monocrotophos contd.	Monocrotophos contd.
Spiroplasma citri 1470, 3505, 5630, 6668	against contd.	with leptophos, against, Tetranychus
mollis, Chorthippus	Dicladispa armigera, on rice 6373,	cinnabarinus 490
<i>mollis, Ernobius</i> Mollusca 3843, 4449, 4726	Diparopsis watersi, on cotton 4885	with methamidophos, against, Spodoptera littoralis 5723
Achatina fulica 4696, 4983	Earias spp.	with methomyl
Cepaea nemoralis 6335	on cotton 5126	against
Deroceras reticulatum 5575	on okra 4017	Spodoptera littoralis 225
Helix pomatia 6335	E. insulana, on okra 5649	on cotton 487
Molluscicides	E. vittella, on okra 5649	with phosfolan against
formulations of, technical specifications for 3217	Eriophyes guerreronis, on coconut 1436	Spodoptera littoralis 225
sales of, in Finland 6701	Graphognathus peregrinus 2639	on cotton 487
Molluscs, parasitised by, Johnsoniini 4726	Heliothis spp., on Cicer arietinum	Monoctonus, in North Korea 3347
Moma alpium, in Italy 6125	1671	Monoculture, insect fauna as affected by 6371
Momordica charantia antifeedant activity of oil from seeds of	H. armigera	monodactylus, Oidaematophorus
1368	on Cicer arietinum 5679	monodon, Notoxus
Diaphania indica on, not developing	on cotton 5126 on <i>Lablab purpureus</i> 426	Monodontomerus
1499	Hydrellia philippina, on rice 3954	control of, repellents for 2924
insecticidal activity of oil from seeds of 1368	Maruca testulalis, on Vigna unguiculata	parasitising, Megachile rotundata 2924 Monolepta, on avocado, damage caused by
Leptoglossus australis on, feeding by	455	972
2242	Megalurothrips sjostedti, on Vigna	Monolepta signata
Tetranychus neocaledonicus on, in	unguiculata 455	in India 2820
Haryana 267 momphae, Eupelmus	Melanaphis sacchari, on sugar-cane 290	preying on, <i>Macrosiphum rosae</i> , in India 2820
Momphidae, taxonomy of 5286	Nezara viridula, on soyabean 6520	Monomorium, sting apparatus in 2809
monacha, Lymantria	Nilaparvata lugens, on rice 335, 3396,	Monomorium minimum
Monacis, on Ochroma pyramidale, nectar	3399, 3951, 3963	defensive secretion in 2324
production and 4972 Monacon, taxonomy of 4462	Nipaecoccus filamentosus, on pomegranate 4009	in USA 1943, 2324 in pastures, interactions with Solenopsis
moncusalis, Lamida (Macalla)	Oebalus insularis, on rice 2299	invicta of 2324
moncusalis, Macalla (see Lamida	Orseolia oryzae, on rice 3947	preying on, Surattha indentella, in Kansa
moncusalis)	Ostrinia furnacalis, on maize 5533	1943
Monelata, parasitising, Atherigona soccata, in Maharashtra 921	Pectinophora gossypiella, on cotton 5126	Monomorium pharaonis biology of 125
Monellia caryella	Pempherulus affinis, on cotton 2537	control of, insecticides for 3118
control of, insecticides for 2943	Peridroma saucia, on grapevine 944	dispersal of 120, 121
in USA 2943	pests of Citrus 5627	distribution of 121 in Canada 4428
on pecan, in Mississippi 2943 Monellia nigropunctata	pests of potato 3019 pests of Vigna radiata 447	in Canada 4428 in Poland 827
control of, insecticides for 2943	pests of Vigna unguiculata 4585, 5104	in bakeries, in central Europe 120
in USA 2943	pod borers, on Cajanus cajan 6524	in dwellings
on pecan, in Mississippi 2943	Pterochloroides persicae, on peach 398	in central Europe 120
Monelliopsis nigropunctata (see Monellia nigropunctata)	Pyrilla perpusilla, on sugar-cane 5515 Sciothrips cardamomi, on Elettaria	in Poland 827 in food factories 3118
Monema flavescens	cardamomum 6343	in hospitals, in central Europe 120
in Japan 1348	Scirpophaga incertulas, on rice 335	in hothouses, in Manitoba 4428
parasitism of, variation in 1348	Scirtothrips dorsalis, on Capsicum	rearing of, techniques for 125
Mongolia Aphidiidae in 3348	6553, 6554 Spodoptera spp., on Cicer arietinum	Mononychellus tanajoa control of, biological 2653, 2654
insects in, book 3308	1671	in Brazil 2498
Monitor (see Methamidophos)	S. littoralis, on cotton 487	in Uganda 6545
Monkey, Chilo iridescent virus in, cell	S. litura 1154	on cassava 1023
fusion caused by 5232 monoceros, Oryctes	on cauliflower 4025 on spice plants 3874	effects of fertilizers on 5696 in Brazil 2498
Monocesta coryli, in USA 6612	stem borers, on rice 3968	in Uganda 6545
Monochamus	Sylepta derogata, on cotton 2538	resistance to 696
control of 5196	Tetranychus urticae 6716	population dynamics of 2498
in pine wood, in Finland 4102 on forest trees, in USSR 5196	Thrips tabaci, on cotton 5127 Trioza erytreae, on Citrus 1469	predators of, in Brazil 2498 Monophlebus, on Shorea talura, in
Monochamus scutellatus	Xestia c-nigrum, on grapevine 944	Karnataka 1359
in USA 94	in Capsicum annuum, residues of 6553	Monotrysia, food preferences in, evolution
mating in 94 on <i>Pinus strobus</i> , in West Virginia 94	in cauliflower, residues of 5268 in Coccinella repanda, toxicity of 6725	of 5434 Montana
sexual dimorphism in 94	in Coccinena repanda, toxicity of 6723	Acrididae in 1421
Monochamus titillator, competing with,	parasites of 2343	Aulocara elliotti in 1244
Dendroctonus frontalis 2559	in cotton fields, effects on predatory	biological control of weeds in 4479
Monocrotaline, in Crotalaria, uptake by Arctiidae of 5450	arthropods of 1042 in eggplant, persistence of 5707	Diabrotica virgifera in 6248 Montandoniola moraguesi
Monocrotophos (dimethyl (E)-1-methyl-3-	in pea, residues of 6512	biology of 5468
(methylamino)-3-oxo-1-propenyl	in radish, residues of 5268	descriptions of 5468
phosphate) against	in rice, not affecting germination 3905 in <i>Trichogramma brasiliensis</i> , toxicity of	in India 5468 preying on, Thysanoptera, in India 5468
Adisura atkinsoni, on Lablab purpureus	2343	montanella, Phyllonorycter
426	in trunk injections 5627	montanus, Anoplognathus
Amrasca devastans, on okra 4017,	resistance to, in	montanus, Colladonus
5649 Aphis craccivora, on cotton 4339	Myzus persicae, in New South Wales 1700	monticola, Telenomus montrouzieri, Cryptolaemus
A. gossypii	Nilaparvata lugens, in Philippines	Montserrat, cotton in, insect pests of 5121
on cotton 4339, 5126, 6563	3398	monuste, Ascia
on eggplant 5707	Spodoptera littoralis, mechanisms of	Moodaa biviella (see Manhatta biviella)
Batocera rufomaculata, on mango 991 Cnaphalocrocis medinalis, on rice 335,	2137 Tetranychus cinnabarinus, and cross-	Moorland, Calluna vulgaris, Myrmica spp. in, in England 122
3926 Signal Contract Signal Si	resistance 6717	Moraceae, Scolytidae on, in West Malaysia
Coelaenomenodera elaeidis, on oil palm	Therioaphis trifolii, in New South	3459
1438, 4543	Wales 4541	moraguesi, Montandoniola
Cysteochila ablusa, on Bauhinia 1558 Diacrisia obliqua, on sugar-beet 5684,	with chlordimeform, against, Spodoptera littoralis 5723	Moranila californica in Greece 5640
5686	with endosulfan, antagonistic 487	parasitising, Saissetia oleae, in Greece
Dichocrocis punctiferalis, on cardamom	with endrin, against, Spodoptera littoralis	5640
283	225	morator, Dyscinetus

Mordellidae	Mulberry contd.	Musa contd.
in eucalypt forests, in Victoria 5763	Bombyx contd.	Tetranychus piercei on contd.
in pine forests, in Victoria 5763	B. mori on, feeding by 1899	in Taiwan 705
Mordellistena humeralis, in USSR 5394	Cofana spectra on 287	Musa textilis, Tetranychus piercei on, in
nordoganensis, Cicada	Elasmucha grisea on, in Turkey 4095	Philippines 705
nori, Bombyx	insect pests of, in India 378	Musca, body temperature in, measuring of
morio, Eurytoma	pest control on 378	2727
Moritziella castaneivora	Psacothea hilaris on, rearing of 3322	Musca domestica
dispersal of 1602	Pseudaulacaspis pentagona on, feeding by	activity in, monitoring of 172
in Japan 1602	1198	aflatoxins in, toxicity of 6678
on Castanea, in Honshu 1602	Pseudococcus comstocki on, in California	atrazine in, effects on fate of carbofuran
seasonal abundance of 1602	1298	of 3884
norleyi, Anomalon normideae, Telenomus	Mulberry-cell cultures, diet component for,	attractants for 1474
norobensis, Sosylus	Bombyx mori 808 Mulharry loof newdow dist component for	Bacillus thuringiensis in, not producing
Morocco	Mulberry-leaf powder, diet component for, Bombyx mori 808	exotoxin 3155 carbofuran in, effects of atrazine on fate
Apis mellifera in, spiroplasms in 6668	Mulberry-orchard soils, Bacillus	of 3884
Capnodis tenebrionis in, on cherry 3996	thuringiensis in, not persisting 6681	carnitine in 1152
Cydia pomonella in, on apple 3481	Mulberry (wood)	control of
Hysteropterum spp. in, spiroplasms in	Coptotermes heimi in, development of	growth regulators for 1715, 2644,
6668	6660	3228, 4711
Laodelphax striatella in, spiroplasms in	Microcerotermes beesoni in, feeding by	insecticides for 654, 655, 658, 1142,
1470	2572	1146, 1696, 2127, 3218, 3705, 3884
Lymantria dispar in, natural enemies of	Odontotermes obesus in, development of	5972
514, 3068, 5288	6660	models of 804
Neoaliturus haematoceps in, spiroplasms	Mulches, for maize, effects on Elasmopalpus	use of pheromones in 6057
in 1470, 6668	lignosellus of 1387	DDT analogues in, metabolism of 3225
Phthorimaea operculella in, in stored	Multi-Film X-77, in diazinon formulations,	enzymes in 1696, 3228, 3257, 5446, 597
potatoes 1605	effects on insecticidal activity of 6707	growth regulators in, degradation of
Psammotettix striatus in, spiroplasms in	multicinctus, Campoplex	3257
1470	Multilure (see α-Cubebene, with 5-ethyl-2,4-	insecticide susceptibility in, effects of
norosus, Carausius norosus, Sennius	dimethyl-6,8-dioxabicyclo[3.2.1]octane,	temperature on 3705
norrilli, Corythucha	and 4-methyl-3-heptanol)	neurophysiological techniques with 4870
norsitans, Glossina	multispinosa, Scaptomyza Multistriatin (see 6,8-	nucleic acids in 723 ovarian production in, regulation of 373
Morus, Callirhopalus bifasciatus on 5135	Dioxabicyclo[3.2.1]octane, 5-ethyl-2,4-	picrotoxinin analogues in, insecticidal
Morus alba (see Mulberry)	dimethyl-)	activity of 1142
Morus mesozygia (wood), Coptotermes	multistriatus, Scolytus	preyed on by, Phidippus audax 247
formosanus in, resistance to 4465	Multitox (see DDT, with parathion-methyl)	sterilisation of, chemosterilants for 2126
Morus nigra (see Mulberry)	munakatae, Chelonus	sulfenyl-propoxur in
nosellana, Sitodiplosis	munda, Cycloneda	metabolism of 2139
Mosquito (see Culicidae)	mundus, Eretmocerus	penetration of 2139
nossambicus, Hodotermes	muneswari, Gastrancistrus	trichlorphon resistance in
Moth (see Heterocera)	Mung bean (see Vigna radiata)	mechanisms of 1812
Moulting hormones	Mung bean green mosaic virus	selection for 1812
Bombyx mori 2222	in	Musca vetustissima
Calpodes ethlius 6079	Aphis craccivora, transmission of 443	control of, biological 2344, 5290
Gryllus campestris 4781	Vigna radiata, in Philippines 443	in Australia 2344, 6556
Leptinotarsa decemlineata 4782, 5341	Mung bean leaf crinkle virus	in safflower fields, in Victoria 6556
Locusta migratoria 760, 1810, 2218,	M Autic consisses Assessing of AA1	Muscalure ((Z)-9-tricosene)
2220, 6071	Aphis craccivora, transmission of 441 A. gossypii, transmission of 441	attractant for, Dacus oleae 1474 Ceratitis capitata not attracted to 1474
Macrotermes bellicosus 844 M. subhyalinus 844	Vigna radiata, in India 441	in insecticide formulations 6057
Schistocerca gregaria 1809, 6288	Mung bean leaf curl browning virus	Muscoidea, in Ogasawara Islands 4305
Tenebrio molitor 2221	in	muscorum, Philoscia
Thermobia domestica 4783	Aphis craccivora, transmission of 443	musculus, Meibomeus
titres of 4259	Vigna radiata, in Philippines 443	Museums, Thylodrias contractus in 5799
Mouse	Mung bean little leaf virus	Mushroom
Cordyceps militaris in, no effects from	im	arthropod pests of
1633	Aphis craccivora, transmission of 443	in New South Wales 2161
DDT analogues in, metabolism of 3225	Vigna radiata, in Philippines 443	in UK 2654
insect growth regulators in, toxicity of	Mung bean mosaic virus	insect pests of
4168	in	in Sarawak 2651
insecticide mixtures in, toxicity of 4392	Aphis craccivora, transmission of 442	in UK 4721
Nomuraea rileyi in, no effects from 1620	A. glycines, transmission of 442	lectins in, receptors in insects for 6335
organophosphates in, toxicity of 651 oxamyl in, metabolism of 4150	Vigna radiata, in Philippines 442 Mung bean yellow mosaic virus	Megaselia halterata on, in England 412 pest control on, book 2622
Paecilomyces fumosoroseus in, no effects	in in	Sciaridae on
from 1633	Bemisia tabaci	basidiospore transmission by 6503
preying on	not transmitted 443	in UK 5091
Datana integerrima, in USA 6223	transmission of 441, 6528	Mushroom compost
Heliothis spp., in New South Wales	groundnut, in Andhra Pradesh 6528	culture-medium component for, Beauveri
6569	Nisia atrovenosa, not transmitted 443	bassiana 1088
pyrethroids in, toxicity of 655, 2127	Sogatella furcifera, not transmitted	pest control in
Mouse, white-footed (see Peromyscus	443	insect growth regulators for 4571
leucopus)	Vigna radiata	insecticides for 4571
Mouse, wood (see Apodemus sylvaticus)	in India 441	Mushroom, hot (see Agaricus bitorquis)
Mozambique	in Philippines 443	Mushroom houses
cashew in, arthropod pests of 5063	resistance to 444	insects in, in Taiwan 2991 Pygmephoridae in, in Americas 2987
plant protection in 3238	murariella, Tinea murarium, Theridion	Muskmelon (see Melon (cantaloupe and
MTMC (see Carbamic acid, methyl-, 3- methylphenyl ester)	murarium, Therition murphyi, Acanthomyops	musk))
Mucopolysaccharides, in fowl yolk sac,	murphyi, Acanthomyops murphyi, Pygmephorus	Muskmelon necrotic spot virus
effects of malathion on 4161	Murraya koenigii, Papilio polytes on, in	in
Mucoproteins, in Pimpla turionellae	Nepal 4291	Diabrotica balteata, transmission of
accessory glands 3340	Murraya paniculata, Aleurocanthus woglumi	4027
Mucor racemosus	on, dispersal of 2975	D. undecimpunctata, transmission of
control of, fungicides for 6097	Murrel (see Channa punctatus)	4027
in, insect rearing media 6097	Musa	Mussidia nigrivenella, in stored products,
nuguanicus, Tenuipalpus	Forcipomyia spp. in leaf axils of, in Brazil	imported into UK 3658
nukerjii, Uscana	3052	Mustard
Mulberry (Morus alba and M. nigra)	Tetranychus piercei on	Aleyrodes brassicae on, development of
Bombyx mandarina on, in Japan 1168	in Hong Kong 705	6117

```
Mustard contd.
                                                                                                             Myllocerus delicatulus
      Athalia rosae on, in West Germany 3000
                                                                                                                   in India 2449
      insect pests of, in Assam 4142
                                                                                                                   on Litchi chinensis, in Uttar Pradesh
                                                                                                                          2449
      Trialeurodes vaporariorum on,
                                                                                                              Myllocerus discolor, control of, insecticides
             development of 6117
 Mustard (Brassica campestris), insect pests
                                                                                                                      for 3048
        of, in Andhra Pradesh 5659
                                                                                                              Myllocerus dorsatus
 Mustard (Brassica juncea)
                                                                                                                   in India 2449
      Athalia lugens on, effects of irrigation on
                                                                                                                   on Litchi chinensis, in Uttar Pradesh
                                                                                                                           2449
             2475
                                                                                                              Myllocerus maculosus (see M.
      Bagrada hilaris on, in Delhi 2475
                                                                                                                      undecimpustulatus maculosus)
      Diacrisia obliqua on, development of
                                                                                                              Myllocerus subfasciatus, Bacillus cereus in,
             1820
                                                                                                             pathogenicity of 2618

Myllocerus undecimpustulatus maculosus
control of, insecticides for 6565
in India 2449, 6034, 6565
       Lipaphis erysimi on, in Delhi 2475
      Myzus persicae on, in Japan 1209
      Thysanoplusia orichalcea on, in Delhi
             2475
                                                                                                                   on cotton
virus control in, vector control for 5089
Mustard, Chinese (see Mustard (Brassica
                                                                                                                   damage caused by 6565
in Chandigarh 6034
varietal preferences of 6565
on Litchi chinensis, in Uttar Pradesh
        juncea))
Mustard (Sinapis alba)
glucosinolates in 282
                                                                                                                          2449
      Melanoplus bivittatus on, development of
                                                                                                                   reproductive system in 6034
                                                                                                              Mymaridae
      M. sanguinipes on, development of 2466 Myzus persicae on, development of 3295 Phyllotreta armoraciae on, feeding by
                                                                                                                   in rape fields, effects of insecticides on 3516
                                                                                                                   parasitising, Taphrocerus schaefferi, in Virginia 4488
              282
      P. undulata on, feeding by 4018
P. undulata on, feeding by 4018
mutabilis, Meigenis
Mutagens, toxaphene 1160
mutatella, Dioryctria
mutilatus, Carpophilus
mutilatus, Pipunculus
MV-678 (see Benzene, 1-(8-methoxy-4,8-
dimethylnony), 4-(1-methyllony), 1-(1-methylnony), 1-(1-methyln
                                                                                                                   in Americas 4192
                                                                                                                   taxonomy of, Haplaxius as synonym of
                                                                                                                          4192
                                                                                                              Myndus cocois (see M. crudus)
                                                                                                              Myndus crudus
                                                                                                                   in USA 5583
dimethylnonyl)-4-(1-methylethyl-)

Mycetophiloidea, parasitised by,

Cryptoserphus spp. 2340

Mychiothrips fruticols
                                                                                                                   on palm trees, in Florida 5583
                                                                                                                   taxonomy of
                                                                                                             Haplaxius cocois as synonym of 419
transferred from Haplaxius 4192
myopaeformis, Conopia (Synanthedon)
myopaeformis, Synanthedon (see Conopia
Mychiothrips fruticola
gen. et sp. nov., description of 4729
in Japan 4729
on Miscanthus, in Japan 4729
Mycodiplosis plasmoparae
descriptions of 5190
in birch catkins 5190
Mycological collections, Tyrophagus
putrescentiae in, in Italy 5012
mycon, Perkinsiella
Myconlasmatales, (including myconlasm
                                                                                                             myopaeformis, Tetanops
myops, Bothriomyrmex
Myrcene (see 1,6-Octadiene, 7-methyl-3-
                                                                                                                      methylene-)
                                                                                                              Myristic acid (see Tetradecanoic acid)

Myristica fragrans (see Nutmeg)
 Mycoplasmatales (including mycoplasma-
                                                                                                              Myrmecocystus mexicanus, in USA 794
        like organisms)
                                                                                                              Myrmecolax
                                                                                                                   in Thailand 4188 keys to 4188
      in
          arthropods, pathogenicity of, review 5239
                                                                                                              Myrmica
           cabbage
                                                                                                                   food exchange in, studying of 1337
                pathogenicity to Drosophila of 5836
                                                                                                                   in Calluna moorland, in England 122
                                                                                                             in Calluna moorland, in England 12

Myrmica americana
in USA 877, 6295
in maize fields, in Nebraska 877
preying on, Diabrotica virgifera 877
sampling of 6295

Myrmica brevispinosa discontinua
in USA 4633
tending Kerrnes kincii in Michigan
                pathogenicity to Galleria of
                                                                                5836
pathogenicity to Drosophila of 5836
pathogenicity to Galleria of 5836
Mycosphaerella ligulicola
control of, fungicide-insecticide mixtures
for 4613
in, Chrysanthemum spp., in Florida
4613
                                                                                                                   tending, Kermes kingii, in Michigan
4633
 Mygalopsis, in Australia 5292
Myiomma, taxonomy of 3856
Myiomma cixiiformis, descriptions of 3856
                                                                                                              Myrmica emeryana
in Canada 4971
                                                                                                                   tending, Mastopoda pteridis, in Manitoba
4971
 Myiopardalis pardalina
in Turkey 1311
                                                                                                                 Myrmica laevinodis, aggression in 4436
      on cucurbits, in Turkey 1311
                                                                                                              Myrmica rubra
 Mylabris
                                                                                                                   aggression in 1263
 in India 6122
in Turkey 4297
Mylabris phalerata
                                                                                                                   photoperiodism in 4845
                                                                                                              Myrmica ruginodis
                                                                                                                   habitats of 122
in Poland 126
      chromosomes in 5351
      in India 5351
                                                                                                                   in UK 122
      on Hibiscus rosa-sinensis, in Chandigarh 5351
                                                                                                                   in Calluna moorland, in England
                                                                                                                   industrial pollution as affecting 126 workers of, aggression of M. laevinodis towards 4436
 Mylabris pustulata
                                             5351
      chromosomes in in India 5351
                                                                                                              Myrmica rugulosa
competing with, Lasius niger 6290
in Poland 6290
in India 5351
nitrogen in 4772
on Ipomoea, in Punjab 5351
Mylabris scabiosae, taxonomy of,
transferred to Coryna 4297
Mylabris zebraea, taxonomy of, transferred
to Coryna 4297
mylitta, Antheraea
Myllocerus biology of 2780
                                                                                                              Myrmica sabuleti, aggression of Myrmica rubra towards 1263
                                                                                                              Myrmica scabrinodis
habitats of 122
                                                                                                             in UK 122
in Calluna moorland, in England 122
Myrmica schencki
 Myllocerus, biology of 2780
 Myllocerus curvicornis
in India 360
                                                                                                                   in Poland 126
      on coconut, damage caused by 360
                                                                                                                   industrial pollution as affecting 126
```

```
in coniferous forests, in Lithuania 5393
                       sting apparatus in 2809 mysorensis, Kerria
                       mysteriana, Olethreutes
                       Mythimna
                           in Queensland 2671
                            Nomuraea rileyi in, in Queensland 1921
                            parasites of, in Queensland 1921
                       Mythimna convecta
biology of 1921, 6356
control of 6356
                          control of 6356
insecticides for 927, 1921
illustrations of 1921
in Australia 927, 1921, 6356
in pastures, in New South Wales 92
on field crops, in Queensland 1921
on grain crops, in Western Australia
6356
                      Mythimna l-album
in Spain 3388
on rice, in Spain 3388
Mythimna loreyi
in Indonesia 3415
                            in Spain 3388
                           on rice
                                in Indonesia
                                                             3415
                                in Spain 3388
                      Mythima loreyimima
biology of 1921, 6356
control of 6356
                          control of 6356
insecticides for 1921
illustrations of 1921
in Australia 1921, 6356
on field crops, in Queensland 1921
on grain crops, in Western Australia
6356
                       Mythimna separata
Bacillus thuringiensis in, crystal formation
by 619
biology of 1921, 1938, 6377
control of
4192
                          control of
biological 4823
insecticides for 1921, 2487, 3950, 5558
spray equipment for 3950
spray volumes for 3950
illustrations of 1921, 1938
in Australia 1921, 1938, 6421
in Bangladesh 4495
                           in China 4993 in India 2487, 2551, 3919, 3950, 5024,
                                   5558, 6377
                           in Indonesia 3415
in Japan 1208, 4287
in New Zealand 4823
                            integument in, melanisation of 738
                            mating in, effects of dietary sugars on
                           melanisation in, hormonal regulation of 1219
                           migration in 2233
nocturnal behaviour in 1260
nuclear polyhedrosis virus in, specificity of
                                   5006
                           on field crops, in Queensland 1921
on hemp, in Bihar 2551
on maize, in Rajasthan 6377
                            on rice
                                in Bangladesh 4495
in Indonesia 3415
                                in Madhya Pradesh 2487, 3919, 3950,
                                       5558
                                in Rajasthan 6377
in Western Australia 6421
                            on sorghum
                                damage caused by
in Rajasthan 6377
                           on wheat, varietal preferences of 5024 parasitised by, Telenomus guangdongensis, in China 4993 pest status of 4287 rearing of, diets for 4878, 6143 seasonal abundance of 3919 sex pheromone of, identity of 1224 thimms uninnects
                      Mythimna unipuncta
control of, insecticides for 902, 2915,
4900, 4928
granulosis virus in
                                envelope proteins of 4684 interaction with nematodes of 1128
                                sucrose density gradient centrifugation damaging 5854
```

iojeci index		104
ythimna unipuncta contd.	Myzus persicae contd.	Myzus persicae contd.
granulosis virus in contd. synergism of nuclear polyhedrosis virus	control of contd. insecticides for 219, 464, 1209, 1462,	on <i>Capsicum</i> in Bulgaria 1462
and 4684	1486, 1525, 1554, 1695, 2024, 2029,	in Netherlands 3808
in Canada 996 in India 2915, 4501	2032, 2494, 2495, 2720, 3016, 3535,	on Capsicum annuum
in Libya 2368	3538, 3560, 3796, 4578, 4590, 4609, 4936, 4944, 5089, 5118, 5582, 5654,	in Argentina 5709 in Tamil Nadu 5118
in Mexico 923, 1647	5685, 5687, 5690, 5700, 5709, 5959,	on Cardaria draba, development of 396
in Pakistan 902	6232, 6233, 6530, 6532, 6533, 6534,	on cauliflower, effects of cauliflower
in Spain 3388 in USA 4900, 4928	6555 soaps for 1063	mosaic virus on 4749 on <i>Chenopodium album</i> , development of
Neoaplectana carpocapsae in, interaction	threshold for 1486, 3535, 5694, 6232	396
with viruses of 1128	timing of 2024, 4590, 4944 traps for 1020	on Chenopodium quinoa, development of 3295
on barley, in Manitoba 996 on maize	cucumber mosaic virus in, transmission of	on Chrysanthemum, in England 3058
in Libya 2368	6508	on Citrus
in Maryland 4900	descriptions of 4554 development in, effects of temperature on	in Greece 6302 in India 401
on rice in Pakistan 902	2024, 4943	in Italy 3492
in Spain 3388	dispersal of 1274 distribution map for 3303	on Convolvulus arvensis, development o
on sorghum	Entomophthora spp. in, in France 5693	on cotton, in Greece 6302
damage caused by 923	enzymes in 1694, 2720, 4733, 4816,	on cucumber, in UK 6508
in Maharashtra 2915 on sugar-cane, in Punjab 4501	6086, 6718 variation in 5348, 6044	on cucurbits, in California 1488 on eggplant
parasites of, attraction to kairomones of	esterase in, variation within clones of	in France 2032
3318	6086	in Romania 5700
parasitised by, Athrycia cinerea, in Manitoba 996	fecundity in effects of parasitism on 5482	on Eruca sativa, in Punjab 3542 on glasshouse crops, in Bulgaria 1462
seasonal abundance of 1647	effects of temperature on 5482	on hemp, in India 5497
sex pheromone of, variation in responses	food-plants of 1462, 5497	on lentil, in India 5497
to 2202 Vairimorpha necatrix in, pathogenicity of	selecting of 3295 groundnut mottle virus in, transmission of	on Lepidium perfoliatum, development of 396
3380	5676	on lettuce, in California 1486
ythimna venalba	gynoparae production in 1294	on nectarine, in New South Wales 169
in Indonesia 3415 on rice, in Indonesia 3415	hyperparasitised by, Asaphes vulgaris, in Greece 6302	on Papaver somniferum, in India 5497 on peach
ythimna vitellina	illustrations of 1524	damage caused by 4554
in Spain 3388	in Argentina 5709	in Bulgaria 1462
on rice, in Spain 3388 vtilaspidis, Aphytis	in Australia 1695, 1700, 2005 in Austria 1525	in Italy 6457 in New South Wales 1695
ytilococcus beckii (see Lepidosaphes beckii)	in Belgium 464, 1524, 6533	in Washington 4590
beckii) yzocallis annulata (see Tuberculatus	in Brazil 1014, 3016	resistance to 5076, 6473
annulatus)	in Bulgaria 1462 in Egypt 2500	on potato damage caused by 4936
yzocallis carpini	in Finland 5953	distribution pattern of 2026
in New Zealand 5195 on Carpinus betulus, in New Zealand	in France 2026, 2032, 3530, 5076, 5693 in Greece 6302	forecasting infestations of 2024, 3538
5195	in India 401, 2494, 3542, 5118, 5497,	in Brazil 3016
seasonal abundance of 5195	6574	in Bulgaria 1462
yzodes persicae (see Myzus persicae) yzus, predation of 2817	in Israel 1020 in Italy 3492, 4554, 6457	in England 219 in France 5693
yzus ascalonicus	in Japan 1209, 1535, 4733	in Idaho 5694
in East Germany 2939 on strawberry, in East Germany 2939	in Mauritius 5513 in Mexico 2298	in Israel 1020 in Maharashtra 2494
yzus cerasi	in Netherlands 3808	in Mauritius 5513
control of, insecticides for 3194	in Poland 4040	in Minnesota 3533, 3535, 6232
in Poland 3982 on cherry, damage caused by 3982	in Romania 5582, 5700 in Spain 6532	in New South Wales 1700 in Pennsylvania 4916
yzus langei, in Spain 3780	in Switzerland 5687, 5959, 6530	in Romania 5700
yzus malisuctus (see Ovatus malisuctus)	in Taiwan 1998	in Scotland 2104
yzus persicae alarm pheromone in, use in control of	in UK 219, 2104, 3058, 4578, 5685, 5690, 6508	in UK 5690 in USA 4943
5654	in USA 1063, 1274, 1486, 1488, 2024,	in Wisconsin 6233
alate production in 396	2490, 3533, 3535, 3537, 3538, 3560,	on Prunus persica × P. davidiana, resistance to 5076
variation in 4816, 6044 barley yellow dwarf virus in, transmission	4046, 4590, 4609, 4916, 4943, 4944, 5694, 6188, 6232, 6233	on radish, development of 396
of 3440	in USSR 1554	on safflower, in Mexico 2298
bean yellow stipple virus in, not transmitted 4034	in West Germany 6534 in Zimbabwe 3049	on Sinapis alba, development of 3295 on Solanum, resistance to, biotype
beet mild yellowing virus in, transmission	insect growth regulators in, effects of	variation in 6234
of 1524, 1525, 5685, 5687	1717	on Solanum phureja, resistance to 6549
beet mosaic virus in, transmission of 1524	insecticide resistance in 1524 detecting and measuring of 3709	on Solanum sarrachoides, development of 396
beet western yellows virus in, transmission	evolution of 1694	on soyabean, in Illinois 6188
of 396, 4590	in New South Wales 1695, 1700	on sugar-beet 467
beet yellows virus in, transmission of 1524, 1525, 5683, 5685, 6532	in West Germany 6534 mechanisms of 2652	assessing infestations of 2490 effects of herbicides on 3014
biology of 1462, 1695, 4590, 5685	role of esterases in 2720	forecasting infestations of 3530
biotypes of 4943	stability of 6718	in Austria 1525 in Belgium 464, 1524, 6533
citrus tristeza virus in not transmitted 2978	insecticide susceptibility in colour morph differences in 1209	in Poland 4040
transmission of 2103	effects of food-plant on 3796	in Spain 6532
clones of 4733	male production in 1294 natural enemies of, effects of insecticides	in Switzerland 5687 in UK 5685
colour forms of 4733 colour polymorphism in 1209	on 3538	in Washington 4590
control of	on Amaranthus retroflexus, development	in West Germany 6534
biological 475, 2032, 3058, 3808, 5859,	of 396 on <i>Brassica juncea</i> , in Japan 1209	on tobacco effects of tobacco mosaic virus on
6555 cultural 4040, 5685, 5690	on brussels sprouts, in England 4578	4749
for virus control 1485	on cabbage, damage caused by 2005	in Andhra Pradesh 6574
fumigants for 3618, 6641	on Capsella bursa-pastoris, development of 396	in Bulgaria 1462 in Moldavia 1554
growth regulators for 6233	370	AIA 174010001300 -001

Napomyza lateralis contd. control of, cultural 512 Myzus persicae contd. on tobacco contd. Nabis contd. in vineyards, in Pennsylvania 5059 5120 preying on, Corythucha morrilli, in California 5502 in North Carolina 3560 in Bulgaria 5120 in Virginia 4609 in Zimbabwe 3049 on sunflower, in Bulgaria 5120 parasites of, in Bulgaria 5120 Nabis alternatus in USA 5720 in cotton fields, in Arizona 5720 predation by 5720 on tomato, in Egypt 2500 Narcissus arthropod pests of, in UK 5139 Merodon equestris on on turnip in Japan 1535
in North Carolina 4046
on wheat, in Brazil 1014
outbreaks of, caused by insecticides
3533, 3535 Nabis americoferus in USA 480, 5011, 6196 in cotton fields, effects of insecticides on damage caused by in France 5138 5139 Rhizoecus palestineae on, in Florida 480 3057 in soyabean fields, in Iowa 6196 Steneotarsonemus laticeps on, damage papaw ringspot virus in, transmission of Steneotarsonemus laticeps on, da caused by 4612
Naringin, deterring oviposition by Anastrepha suspensa 4832
narzykulovi, Microterys nasatum, Armadillidium nasicornis, Oryctes
Nasiman (see Protein hydrolysate) preying on Spodoptera exigua, in California 40 Trichoplusia ni, in California 480 Zygogramma tortuosa, in California 5011 1998 Aphidiidae, in France 5693
Aphidiidae, in France 5693
Aphidius matricariae 200, 3808, 5482
Praon volucre, in Greece 6302
parthenogenesis in 4816
pirimicarb resistance in, in Netherlands seasonal abundance of 6196 Nabis capsiformis (see Tropiconabis nasoni, Megaselia 3808 capsiformis) population dynamics of 2026, 4040 potato leaf roll virus in detecting of 3023, 5113 not replicating 2028 transmission of 1020, 2104, 5690, 5694, 6233 potato virus Y in, transmission of 5688, 5690 Nabis roseipennis in USA 2528 Nasonia vitripennis, diapause in, effects of hormones on 3277 preying on, *Heliothis* spp., in Mississippi 2528 assatus, Orthotylus Nasturtium (see Tropaeolum) Nasturtium microphyllum glucosinolates in 282 Phyllotreta armoraciae on, feeding by Nabis tasmanicus in Australia 6687 prey viruses in, passage through gut of 282 5690 6687 potato virus Y necrotic str. in, infectivity of 1019 Nasutitermes, nest-building in, effects on soi properties of 6333 preying on, Heliothis punctigera 6687 Nacerdes melanura in USA 5825 predators of Nasutitermes costalis, nests of, expansion of in USA 5825 in buildings, in North Dakota 5825 nacheri, Ephedrus nachiensis, Fiorinia Nacoleia octasema abundance of 4916 diel activity of 3537 effects of insecticides on 4609 in Andhra Pradesh 6574 Nasutitermes exitiosus
control of, insecticides for 4129
digestive enzymes in 3260
gut in, redox potential of 4754
in Dyera costulata wood 4129
in Eucalyptus regnans wood, effects of
fungi on 2842 in Bulgaria 1462
preyed on by
Aphidoletes aphidimyza 2338, 3808, control of biological 2460 insecticides for 6499 in Australia 2460, 6499 5953 Chrysopa perla 4987 Micraspis discolor 6326 Semiadalia undecimnotata 1882 in Eucalyptus wood, effects of fungi on on banana distribution pattern of 6499 resistance to 262 laboratory bioassays using 5489
Nasutitermes graveolus, laboratory bioassays
using 5489 in Queensland 2460 rearing of, diets for 4319 parasites of, in Queensland 2460 Nadiasa concolor, on Pinus radiata, in southern Africa 5169
Nala lividipes, in India 797
Naled (1,2-dibromo-2,2-dichloroethyl reproduction in, effects of virus-infected Nasutitermes nigriceps attractants for 6331 menthol in, toxicity of enantiomers of food-plants on 4749 seasonal abundance of 1535, 1998 soyabean mosaic virus in, transmission of 1014, 6188 dimethyl phosphate) 6331 repellents for 6331

Nasutitermes walkeri, laboratory bioassays using 5489

natalensis, Macrotermes

Natamycin, in cheese, for controlling mould that attract mites 3116 sweet potato mosaic virus in, transmission of 2497 against Ceratitis capitata 3700 Hemiberlesia rapax, on Actinidia chinensis 5883 sweet potato yellow spot virus in, transmission of 3025 taxonomy of, characters distinguishing M. varians and 4554 Pheidole megacephala 5264 in Coccinella septempunctata, toxicity of that attract mites 3116

Natural enemies
of arthropods

Abantiades latipennis 1091

Acanthococcus spp. 1182

Acanthomyops murphyi 1331

Achaea janata 476, 2169, 3033

Acigona infusella 5507

Acleris tripunctana 1575, 1576

Acraspis hirta 526

Acrocercons caeruleus 6581 tomato extracts in, toxicity of 4048 traps for 3530

Myzus solani (see Aulacorthum solani) 1712 with toxaphene, in cotton fields, effects on predatory insects of 480 with trimedlure 3700 Myzus varians control of, timing of 4554 descriptions of 4554 in France 5076 in Italy 4554 nalepi, Phytoptus nana, Agromyza nana, Trichogrammatoidea nanaria, Cyclophora nanjingensis, Schizotetranychus Nanorchestidae, in industrial reclamation sites, in England 3424 Acraspis hirta 526
Acrocercops caeruleus 6581
Acronicta spp. 4100
Acrosternum hilare 2415
Aculops lycopersici 4596
Acyrthosiphon kondoi 1426, 1956, 2042, 5416, 5880, 6437
A. pisum 1426, 5880
Adelphocoris spp. 5578
Adoxophyes spp. 3056
Aelia rostrata 3366
Aeneolamia varia 6432
Agromyza frontella 2927
A. oryzae 346
Agrotis exclamationis 1864
A. ipsilon 2337, 3379 on Clematis vitalba, in Italy 4554 on peach on peach
damage caused by 4554
resistance to 5076, 6473
on Prunus persica × P. davidiana, in
France 5076
taxonomy of, characters distinguishing M.
persicae and 4554
N-2596 (see Phosphonodithioic acid, ethyl-,
S-(4-chlorophenyl) O-ethyl ester)
Nabidae Naphthalene Naphthalene against
Varroa jacobsoni 3851
on Apis mellifera 6301
formulations of, controlled release 5656
repellent for, Delia brassicae, on
cauliflower 5656
1,4-Naphthalenedione, 2-(acetyloxy)-3dodecyl-, against, Tetranychus urticae,
on strawberry 1440
1,4-Naphthalenedione, 5-hydroxy-7-methylin Diospyros virginiana wood 2632
in Reticulitermes flavipes, toxicity of
2632
1-Naphthalenol in Galápagos Islands 6127 in vineyards, in Pennsylvania 5059 Rhynchomermis nabiculensis in, in Soviet Far East 621 A. ipsilon 2337, 3379 A. segetum 1864, 2818 in cotton fields effects of herbicides on 4600 Aleurocanthus woglumi 975 Aleurolobus barodensis 2352 Amara spp. 5467 1-Naphthalenol acetate, in Galleria mellonella, hydrolysis of 3268 methylcarbamate (see Carbaryl) 1(2H)-Naphthalenone, 3,4-dihydro-4,8effects of insect-resistant varieties on 1047 1047
in Mississippi 1046
sampling of 1550
in pear orchards, in Oregon 5609
in potato fields, in Pennsylvania 4916
in soyabean fields
effects of cultural practices on 460
in Iowa 6196
in strawberry fields, in Sweden 5584
in tobacco plantations, effects of
insecticides on 4609, 4934 Amara spp. 3461
Anacampsis populella 1575, 1576
Anastrepha ludens 3356
Anisoplaca ptyoptera 5890
Anoecia corni 3376
Anomis leona 2552
Anthophora spp. 3980
Anticarsia gemmatalis 5665, 5672, 6522 in National and in Diospyros virginiana wood 2632 in Reticulitermes flavipes, not toxic 2632 napi, Artogeia (Pieris) napi, Ceutorhynchus napi, Pieris (see Artogeia napi)
Napomyza lateralis biology of 5120 dihydroxy-6-methyl-Aonidiella aurantii 6482 A. citrina 6482

појест таех
atural enemies contd.
of arthropods contd.
Aonidiella contd.
A. orientalis 2969
A. taxus 1591
Aonidomytilus espinosai 4444
Aphis citricola 4979, 5621
A. craccivora 2820, 5108
A. fabae 2820
A. gossypii 3492, 5121, 6302
A. gossypii 3492, 3121, 0302
A. pomi 3465
Aphodius tasmaniae 1948
Apion corchori 1051
Anis spp. 4441, 4978
Apis spp. 4441, 4978 A. florea 602
A malliform 252 252 602 1979
A. mellifera 252, 253, 602, 1878,
2612, 3840, 3851, 3863, 4439, 4
4709
Aradus cinnamomeus 5767
Araecerus fasciculatus 3677
Araecerus fasciculatus 3677 Archips cerasivoranus 5842 Arge humeralis 4485
Archips cerasivoranus 3642
Arge humeralis 4485
Argyresthia thuiella 2584
Armitermes spn 190
A. neotenicus 3867 Artipus spp. 4930
Artique enn 4930
A manage 1000 1407
Artogeia rapae 1000, 1497
Arytaina genistae 4648
Arytaina genistae 4648 Asphondylia spp. 1513
Aspidiotus destructor 249, 2935
Aspidiotus destructor 249, 2935 A. nerii 4008, 4570, 6495 Asterolecanium spp. 249
Actorologopium com 240
Asteroiecamum spp. 249
Ataenius spretulus 6204 Atherigona soccata 921
Atherigona soccata 921
Aulacaspis tubercularis 2935
Aulacorthum solani 5693
Aylax papaveris 5713
Bactra spp. 2169
Basilepta subcostatum 1479
Bemisia citricola 6024
B. tabaci 6567
Riorhiza nallida 3503
Biorhiza pallida 3593 Blastodacna atra 3339
Biastodacha atra 3339
Bombyx mandarina 5473
B. mori 2109, 3169
Prochemia arategas 2202
Brevicaryne brassicae 115
Dievicolyne olassicae 115
Brevipaipus phoenicis 2451
Brevicoryne brassicae 115 Brevipalpus phoenicis 2451 Brontispa longissima 1833
Bruchidae 2602
Bruchus lentis 5667
B. pisorum 3524
D. pisorum 5524
B. signaticornis 5667
Bucculatrix crataegi 5598
B. pyrivorella 3482
Bupalus piniarius 509 Byturus tomentosus 1442
Ryturus tomentosus 1442
Colingo comosi 5206
Caliroa cerasi 5396
C. quercuscoccineae 6210
C. quercuscoccineae 6210 Calligrapha spiraea 5761
Callosobruchus analis 6666
Calophya nigra 147
Caloptilia betulicola 1576
C theirean 2056
C. theivora 3056
Carabus auratus 6305
C. auronitens 6305
Carulaspis juniperi 2083
Carulaspis juniperi 2083 C. minima 2068
Castnia licoides 1661
Cambalaia lagicimbila 5150 5752
Cephalcia lariciphila 5159, 5752
Cerambyx cerdo 3104
Cerapteryx graminis 928
Cerococcus ornatus 6577
Cerococcus ornatus 6577 Ceroplastes pseudoceriferus 5087
Cerapteryx graminis 928 Cerococcus ornatus 6577 Ceroplastes pseudoceriferus 5087 Centrophynchus asperulus 5675
Cerococcus ornatus 6577 Ceroplastes pseudoceriferus 5087 Ceutorhynchus asperulus 5675
Ceutorhynchus asperulus 5675 C. assimilis 1866
Ceutorhynchus asperulus 5675 C. assimilis 1866
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903 4515
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903 4515
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903 4515
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903 4515
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903 4515
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903 4515
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087 C. psidii 6582
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087 C. psidii 6582 Choristoneura conflictana 1593
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087 C. psidii 6582 Choristoneura conflictana 1593
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087 C. psidii 6582 Choristoneura conflictana 1593
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087 C. psidii 6582 Choristoneura conflictana 1593 C. fumiferana 1594, 6596, 6633 C. occidentalis 6637
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087 C. psidii 6582 Choristoneura conflictana 1593 C. fumiferana 1594, 6596, 6633 C. occidentalis 6637
Ceutorhynchus asperulus 5675 C. assimilis 1866 C. napi 3517 C. pallidactylus 3517 Chaitophorus spp. 2765 Chilo spp. 2169 C. auricilius 2903, 4515 C. infuscatellus 5021, 6346 C. sacchariphagus 6346 C. sacchariphagus 6346 C. suppressalis 905, 4993 Chloealtis aspasma 248 Chloropulvinaria polygonata 5087 C. psidii 6582 Choristoneura conflictana 1593

2336, 440,

```
Natural enemies contd.
         of arthropods contd.
                    Chrysoesthia sexguttella 848
                    Chrysomela scripta 550, 6206
                   Chrysomphalus dictyospermi 6482
Chrysopa spp. 4447
Cicindelidae 2827
                 Cicindelidae 2827
Cicinara juniperi 1177
Clinodiplosis oleisuga 5641
Clostera anachoreta 5473
Cnaphalocrocis medinalis 324, 904, 1409, 3392
Cnephasia spp. 2264, 3371
Coccinellidae 4454
Coccodiplosis coffeae 258
Cochliotis melolonthoides 1384
Coelaenomenodera elaeidis 362, 4544
Cofana spectra 2651, 2908
Colaspis spp. 1651
Coleomegilla maculata 5471
Coleophora spp. 6606
C. anatipennella 2952
C. hemerobiella 2952
C. serratella 2952, 4630
Coleotechnites edulicola 576
Colomerus novahebridensis 2654
                   Colomerus novahebridensis 2654
                   Conomelus dehneli 5512
Contarinia inouyei 5737
C. sorghicola 919, 1417, 2407, 3131, 3416
                 C. stiglico 315, 1417, 2407, 3
3416
Corythucha ciliata 1088
C. morrilli 5502
Costelytra zealandica 350, 5873
Cricotopus sylvestris 5556
Crioceris asparagi 6502
C. duodecimpunctata 6502
Cryphalus piceae 3594, 3601
Cryptolestes ferrugineus 4668
Cryptophlebia leucotreta 2169
C. ombrodelta 2169
Curculio caryae 2782
Cyclocephala spp. 6204
Cydia caryana 3993
C. pomonella 1706, 2956, 4211
Dacus oleae 1473, 1992
Dasineura brassicae 2996, 2997
D. fastidiosa 5190
                  D. fastidiosa 5190
D. interbracta 5190
D. tetensi 3456
                D. tetensi 3456
Dasychira pudibunda 3342
Datana integerrima 6223
Delia brassicae 5928
Dendroctonus spp. 1649
D. frontalis 520, 524, 2561, 2578, 3589, 5151
D. micans 1604, 2616, 5767
Dendrolimus sibiricus 1123
D. spectabilis 5145
Diabrotica spp. 1651
Diacrisia obliqua 1640
Diaspis echinocacti 4988
Diatraea saccharalis 289, 861, 3358, 3940
                   Dichocrocis punctiferalis 2822
Diopsis thoracica 2169
Diparopsis spp. 2159
                 Diopsis thoracica 2169
Diparopsis spp. 2159
D. castanea 2160
Dolichovespula media 78
Draeculacephala clypeata 3940
Drosophila spp. 4890
D. melanogaster 2811
                  Dryocosmus kuriphilus 3572, 5736
Dynastinae 5439
                 Dynastinae 5439
Dysaphis anthrisci 1765
D. plantaginea 3465
Eacles magnifica 3054
Earias biplaga 2552
E. vittella 2815
Ectropis bistortata 509
Elasmopalpus lignosellus 3852
Eldana saccharina 693, 1378, 4497, 5287
                  Empoasca onukii 3056
Ephestia elutella 2107
E. kuehniella 2107
                 E. kuehntella 2101
Epiblema scudderiana 2825
Epidiaspis leperii 5608
Epilachna varivestis 4028, 6189
Epinotia tedella 3597, 5148
Erannis defoliaria 546
Eremopeza spp. 4453
Erinnyis ello 2498
Eriococcus spp. 1182
```

Natural enemies contd. of arthropods contd. Eriocraniella spp. 6627 Eriophyes guerreronis 2654 Eriosoma americanum 5061 E. lanigerum 5071 Etiella zinckenella 1513, 2169 Eucallipterus tiliae 5156 Euceraphis gillettei 551 Eucosma spp. 2169 Euleia heraclei 2463 Euroctis chrysorrhoea 2107, 5863
E. melania 516
E. similis 1104, 3592
Eurocryx spp. 4484
Eurygaster spp. 4292 E. integriceps 3264, 6351 Euschistus servus 2415 E. variolarius 2415 Eutromula pariana 951 Euzophera cinerosella 1905 Fiorinia externa 3608 F. theae 1057 Forda hirsuta 3376, 3460 F. marginata 3376 forest pests 2558, 2562 Formica pallidefulva 1331 Torest pests 2536, 2506
Formica pallidefulva 1331
Galeruca rufa 847
Galerucella nymphaeae 1343
Gascardia destructor 4988
Gelechia hippophaella 1322
grain aphids 5025
Gryllotalpa africana 4687
Gymnoscelis rufifasciata 4350
Hadena atlantica 996
Harpalus affinis 5467
H. similis 6305
Heliothis spp. 2528
H. armigera 1037, 1493, 1636, 2169, 2539, 3418, 4460, 5128, 5679, 6569
H. virescens 2041, 2295, 4603
H. zea 460, 5121
Hemiberlesia lataniae 4570, 5142
Hemileuca oliviae 2409
Henosepilachna vigintioctopunctata 3017
Homona magnanima 3056 3017
Homona magnanima 3056
Hoplocampa minuta 1432
Hortensia similis 3940
Hyalopterus pruni 3465
Hydrellia spp. 4138, 4510
H, philippina 324
Hyles euphorbiae 6339
Hylobius abietis 3080
Hylobius abietis 3080
Hylotrupes bajulus 4672
Hypera postica 352, 1428, 2414, 3451, 4538, 6243, 6436
Hyperomyzus lactucae 2438
Hyphantria cunea 3075, 3854
Hypsipyla ferrealis 2169
H, grandella 2169
H, robusta 2169
Hysteroneura setariae 3316 H. robusta 2169
Hysteroneura setariae 3316
Icerya spp. 703
Idioscopus shillongensis 1887
Inopus rubriceps 5870
Ips grandicollis 5151
I. typographus 2616, 5395, 5397
Javesella dubia 2333
Keiferia lycopersicella 2501
Lagria villosa 6313
Laingia psammae 3376
Lampides boeticus 2169
Lasioderma serricorne 3677
Lasius neoniger 1331 Lasius neoniger 1331 Leguminivora glycinivorella 1513 Lema cyanella 1904 Leperisinus varius 20: Lepidiota stigma 616 Lepidosaphes beckii 1890 L. malicola 2949 Leptocera spp. 4138 Leptocorisa oratorius 1402 Leucoma salicis 1123, 3592, 5792, 5863 Leucopholis rorida 616 Lipaphis erysimi 5469 Liriomyza bryoniae 3807 L. sativae 473 L. trifoliearum 5579 Lixus camerunus 2986

```
Natural enemies contd.
                                         f arthropods contd.

Lymantria dispar 514, 518, 523, 1072, 2566, 2569, 3068, 3100, 3592, 4089, 4107, 4642, 4652, 5288, 5792, 5863

L. monacha 5747

L. obfuscata 4107

Macrosiphum euphorbiae 5693

M. rosae 2820

Mahanarva posticata 1375

Mahasena corbetti 3698

Malacosoma americanum 1092

M. californicum 1092

M. disstria 1092, 2070, 2568, 6213

M. neustria 1296, 5596

Mamestra brassicae 419, 420, 1669, 5096
                           of arthropods contd.
                                                                                           5096
                                                 M. configurata 996, 4575
Manduca sexta 4934
Maruca testulalis 6514
                                      Manduca sexta 4934
Maruca testulalis 6514
Matsucoccus matsumurae 567
Matsumuraeses phaseoli 1513
Megachile rotundata 354, 1952, 2924
Megalurothrips sjostedti 6515
Megastigmus bipunctatus 2660
Melanaphis sacchari 290, 620
Melanaphis sacchari 290, 620
Melanitis leda 2907
Melitturga spp. 3980
Merodon equestris 5138
Metopolophium dirhodum 1388, 3376, 5519, 5524
M. festucae 5519
Metzneria lappella 6338
Moois spp. 3853
Monema flavescens 1348
Mononychellus tanajoa 2498
Mythimna spp. 1921
M. separata 4993
M. unipuncta 996
Myzus persicae 1462, 4916, 5693, 6302, 6574
Nacoleia octasema 2460
Neodiprion excitans 1071
N. sertifer 1592, 2564
Neomaskellia bergii 2351, 2352
Nephantis serinopa 4542, 5052
Nephoptetix spp. 5546
N. nigropictus 886, 887, 911, 912, 2651, 2903
N. virescens 911, 2651, 2903
Nezara antennata 1513
N. viridula 1513
                                         N. migropictus 886, 887, 911, 912, 2651, 2903
N. virescens 911, 2651, 2903
N. virescens 911, 2651, 2903
N. viridula 1513
N. viridula 1513
Nilaparvata lugens 324, 327, 340, 886, 887, 911, 912, 1401, 1885, 2401, 2651, 3408, 3698, 3939, 3967, 3971, 4179, 4507, 5546, 6397
Noctua fimbriata 1966
N. orbona 1966
Oligonychus spp. 2840
O. indicus 3975
O. pratensis 920
Oligotrophus mangiferae 2174
Operophtera spp. 6327
O. brumata 546
O. fagata 5391
Ophiomyia phaseoli 3522
Orgvia antiqua 2445, 3592, 4442, 5473
O. postica 6325
O. pseudotsugata 1070, 2560
O. trigotephras 5288
Orseolia oryzae 324, 328, 2911
Oryctes rhinoceros 1175
Ostrinia frumacalis 5533
O. nubilalis 306, 880, 4993, 5534
Oulema lichenis 1386
O. melanopus 2635, 4504
Pachnaeus opalus 6484
Pachypsylloides spp. 280
Painella simmondsi 4179
Palomena viridissima 621
Pandemis cerasana 1065, 3071
P. heparana 950, 5617
Panolis flammea 509, 5747
Panonychus citri 402, 3841
P. ulmi 3475, 3994
Panquina spp. 3940
Papilio demoleus 404
P. xuthus 6485, 6486
Paracletus cimiciformis 3376
Paradiplosis tumifex 1099, 1100
Paralauterborniella spp. 5556
Paratanytarsus spp. 5556
                                                 Paralauterborniella spp. 5
Paratanytarsus spp. 5556
```

```
Natural enemies contd.
       of arthropods contd.
               Parlatoria oleae 3799
               Parnara guttata 4993
               Parthenolecanium takachihoi 12
               Pectinophora gossypiella 1950
              Peliococcus mesasiaticus
Pelopidas mathias 2905
Pentodon idiota 1380
Pericallia ricini 2615
pests of cassava 1024
               pests of sugar-cane
                pests of tea 1056
               Pheidole dentata 4499
               Phloeosinus dentatus 51
Phorodon humuli 3465
               Phragmatobia fuliginosa 2106
Phyllonorycter spp. 385, 3350, 4622,
                P. blancardella 1979, 2950
               P. quinnatus 6013
P. ringoniella 1457
               Phyllophaga spp. 1660
P. anxia 6303
             P. anxia 6303
Phytomyza horticola 427
Pieris brassicae 5841
Piezodorus guildinii 2016, 4442
P. hybneri 1513
Pikonema alaskensis 5211
Pineus pini 2653
Planococcus spp. 6582
P. citri 3510, 3511, 3800
Plathypena scabra 460, 461
Plathypia coronata 362
Pleroneura aldrichi 3066
P. koebelei 3066
P. lutea 3066
Plusia spp. 5672
               P. Inica 5000
Plusia spp. 5672
P. signata 3893
Plutella xylostella 1000, 1001, 1497, 2107, 4023, 5658
Podisus maculiventris 2415
               Pogonomyrmex desertorum 4974
P. rugosus 4974
               Polistes erythrocephalus 3866
P. lanio 4452
Polybia occidentalis 3855
Popillia japonica 6204
Prays oleae 984, 1657
               Prenolepis imparis 1331
Pristiphora abietina 539
P. erichsonii 1586
               Psallus seriatus 1047
Pseudaonidia duplex 2046
Pseudaulacaspis pentagona 249, 2935, 3056, 4555
            Reculaunicaspis pentagona 249, 2933, 3056, 4555

Pseudococcus comstocki 5079

P. parvulus 1182

Pseudonapomyza gujaratica 6372

Pseudoplusia includens 460, 5121

Psilocorsis spp. 561, 6224

Psylla candida 3067

P. jucunda 3067

P. palmeni 513

P. phlebophyllae 513

P. pyri 209, 1450, 5607, 6457, 6469

P. pyricola 5074

Pteleobius kraatzi 3568

Pulicalvaria thujaella 2584

Pulvinariella mesembryanthemi 4450

Pyrgodera armata 4453

Pyrgoides orphana 5774

Pyrilla perpusilla 4447

Quadraspidiotus perniciosus 1346, 4980

Rastrococcus mangiferae 4447
              4980
Rastrococcus mangiferae 4447
Recilia dorsalis 2651
Resseliella odai 5737
Rhagoletis alternata 5013
R. indifferens 1984
Rhopalomyia californica 833
Rhopalosiphum maidis 2917, 3376
R. padi 1388, 5519, 5524
Rhyacionia buoliana 4211
R. duplana 5157
R. frustrana 1567
Rhynocoris costai 2430
               Rhynocoris costai 2430
rice hoppers 340
Riptortus clavatus 1513
               Rondotia menciana
Saissetia nigrella 26
```

```
Natural enemies contd.
                    of arthropods contd.
                                             Saissetia contd.
S. oleae 249, 2457, 3506, 3508, 4450, 4560, 5083, 5640
                                   S. oleae 249, 2457, 3506, 3508, 445
4560, 5083, 5640
Saperda populnea 5208
Scaptomyza spp. 4138
S. multispinosa 2465
Scathophaga stercoraria 3162
Schistocerca gregaria 2318
Schizaphis graminum 1390, 1917, 2917, 3376, 3882
Schizolachnus piniradiatae 5218
Scirpophaga incertulas 906, 2905, 3910, 4515, 5549, 6395, 6425
S. innotata 6421
Scolytidae 3350
Scolytus ensifer 4616
S. multistriatus 3568, 4616
S. pygmaeus 3568, 4616
S. scolytus 3095, 3568, 4616
S. scolytus 3095, 3568, 4616
Sericothrips variabilis 6195
Sesamia spp. 4497
S. cretica 1380, 2334
S. inferens 2905, 2907, 4515
S. nonagrioides 1380
Setora nitens 2169
Sipha elegans 5524
S. maydis 2765, 3376
Sitobion avenae 1388, 3376, 5519, 5524
S. fragariae 1388, 5519
S. hillerislambersi 2854
                                        Sholotin avenue 1388, 3510, 3519, 5524
S. fragariae 1388, 5519
S. hillerislambersi 2854
Sitiona spp. 6736
Slavum lentiscoides 3460
Smicronyx fulvus 1539, 6259
Sogatella furcifera 324, 887, 911, 912, 3924, 3967, 5546
Sogatodes ortizcola 4445
Spermophagus sericeus 6018
Sphingonotus octofasciatus 4453
Spodoptera spp. 3940
S. exempta 1132
S. exigua 480, 1654
S. frugiperda 1654, 2107, 2303
S. littoralis 4477
S. litura 1638, 2618, 6574
Stelidota geminata 365
Steneotarsonemus spinki 3382
Stenocranus minutus 842
                                     Steneotarsonemus spinki 3382
Steneotranus minutus 842
Stenopteryx subsecivella 5677
Surattha indentella 1943
Sylepta derogata 258
Symmerista leucitys 1068
Synanthedon tipuliformis 1444
Syringopais temperatella 1389
Sypthidae 3346, 3995
Systena blanda 466
Taphrocerus schaefferi 4488
Tarsonemus pallidus 5053
Teleiodes proximella 1576
Tenthredinidae 5773
Tetralopha robustella 5161
Tetraneura ulmi 3376, 5061
Tetranychus spp. 4992
T. cinnabarinus 2498, 5123
T. ludeni 994
                                        T. cinnabarinus 2498, 5123
T. ludeni 994
T. neocaledonicus 2840
T. pacificus 3994
T. urticae 2048, 2498, 3841, 3987
Thaumetopoea pityocampa 3079
Thecodiplosis japonensis 5737
Therioaphis trifolii 6437
Thosea asigna 2169
Thrips tabaci 202, 1634
Thyridopteryx ephemeraeformis 789
Thysanoptera 5468
Tipula paludosa 5237
Tischeria ekebladella 534
Tomicus piniperda 2074, 5397
Tortrix viridana 1336, 3071
Toxoptera aurantii 3492, 6302
T. citricida 4004
Trachea anguliplaga 1908
Trialeurodes vaporariorum 3292, 6552
Trichoplusia ni 480
Tryporyza nivella 6308
Tuberculatus annulatus 3067
Typhlocyba pomaria 384
Tyria jacobaeae 5500
Unaspis citri 2935
U. yanonensis 1352
                                                  T. ludeni 994
```

atural enemies contd.	Nealiolus curculionis	Nematoda contd.
of arthropods contd.	in USA 1539, 6259	Howardula 466
Uroleucon compositae 4056	parasitising, Smicronyx fulvus, in North	H. husseyi 2990
Urostylis punctigera 703 Vespula acadica 1341	Dakota 1539, 6259	Neoaplectana 5752
Viteus vitifoliae 5061	Neanastatus grallarius hyperparasitising, Orseolia oryzae, in	N. carpocapsae 531, 607, 618, 1128,
Wiscana spp. 350	Thailand 2911	1619, 2610, 3695, 3822, 4876, 5206 N. glaseri 5853
Xestia c-nigrum 996	in Thailand 2911	Parasitorhabditis 4515
Xyletinus peltatus 3136	parasitising	Paroigolaimella coprophages 5454
Xyloterus lineatus 5399	Obtusiclava oryzae, in Thailand 2911	Rhynchomermis elongata 621
Yponomeuta evonymellus 257, 2264,	Orseolia oryzae, in Thailand 2911	R. nabiculensis 621
3569	Platygaster oryzae, in Thailand 2911 Nearctic region	Steinernema kraussei 5853 Nematodes
Y. malinellus 1432 Zabrotes subfasciatus 3680	Craspedolepta spp. in 1181	diflubenzuron in, toxicity of 2077
Zygogramma tortuosa 5011	Lathrobium spp. in 6022	in
dispersal of 1274	Lespesia spp. in 5479	Nilaparvata lugens 2401
genetic improvement of 4805, 4806,	Lymantriidae in, book 5284	Ophiomyia phaseoli, in Thailand 3522
4807, 4813	Rhyacionia spp. in, on Pinus 1176 Stenopneusticae in 4985	pests of glasshouse crops, in UK 2654 rice hoppers 340
in Libya 2823	Xylophagus spp. in 2661	Nematospora coryli
pest control by manipulation of 5942	nebrascensis, Neoconocephalus	in
prevention of pest outbreaks by 1674	Nebraska	Nezara viridula, transmission of 4037
role in natural control of pests of 5941 screening of pesticides against 676,	Artogeia rapae in 6226	soyabean, damage caused by 4037
2332, 5970	Diabrotica spp. in, on maize 5540 D. virgifera in 6248	Nematus abbottii in USA 1080
traps for 379	Formicidae in 6295	on Robinia pseudacacia, in Oklahoma
of molluscs	Hypera postica in 1951	1080
Achatina fulica 4983	Melanoplus spp. in 820	Nematus ribesii
book 4449	Ostrinia nubilalis in, natural enemies of	in Austria 1755
of plants Acacia arabica 5498	306 Pheidale bicarinate in 1875	in UK 6060 in USSR 5387
Ambrosia artemisiifolia 854	Pheidole bicarinata in 1875 Plutella xylostella in 6226	on currant, in Austria 1755
A. dumosa 5502	Schizaphis graminum in, on sorghum	on gooseberry, in Austria 1755
A. eriocentra 5011	6153	sex pheromone of 6060
A. psilostachya 273	Trichoplusia ni in 6226	Nemeritis canescens (see Venturia
Arctium lappa 6338 A. minus 6338	nebraska, Pardosa	canescens)
Artemisia absinthium 1905	Nebria brevicollis, antennae in, sensilla on 4213	Nemoraea pellucida in France 3075, 3854
A. artemisiifolia 3351	nebulosa, Rhaphigaster	parasitising, Hyphantria cunea, in France
A. trifida 3351	nebulosus, Pseudohylesinus	3075, 3854
Asclepias syriaca 272	necatrix, Vairimorpha	nemoralis, Anthocoris
Celsia coromandeliana 856	Necremnus leucarthros	nemoralis, Carabus (Orinocarabus)
Chenopodium album 848 C. ambrosioides 2367	in Poland 2996 parasitising, Dasineura brassicae, in	nemoralis, Orinocarabus (see Carabus nemoralis)
Cirsium kagamontanum 276	Poland 2996	nemoralis, Rhizoecus
Convolvulus arvensis 847	Necrobia rufipes	Nemorilla ruficornis
Cyperus esculentus 2854, 4488	control of, fumigants for 6646	in Brazil 5672
Eichhornia crassipes 274, 1665, 1667,	in Nigeria 6645, 6646	parasitising, <i>Plusia</i> spp., in Brazil 5672
5507 Emex australis 4481	in cacao beans, in Nigeria 6645, 6646 in oil-palm kernels, in Nigeria 6645	nemorum, Anthocoris nenuphar, Conotrachelus
Emilia spp. 4614	Nectarine (Prunus persica var. nectarina)	Neoaliturus haematoceps
Erigeron spp. 4614	Aculus cornutus on, in New Zealand	in Morocco 1470, 6668
Eriocereus martinii 6337	3997	in orange groves, in Morocco 1470
Galinsoga ciliata 4487	Myzus persicae on, in New South Wales 1695	Spiroplasma citri in, in Morocco 1470, 6668
G. parviflora 4487 Haplopappus tenuisectus 3873	pest control on, insecticides for 1695	Neoaliturus opacipennis
Lantana camara 5, 852, 2853	Nectria coccinea, in, Fagus spp., relation of	in USSR 2346
Lonicera quinquelocularis 4478	Cryptococcus fagisuga and 6602	on beet, in Turkestan 2346
Papaver rhoeas 479	Neem (see Azadirachta indica)	Neoaliturus tenellus
Parthenium hysterophorus 1364, 1664,	Neivamyrmex nigrescens, skatole in 1798 nelsoni, Enoclerus	beet curly top virus in, latent period of 5109
2852 Pluchea spp. 4614	Nelumbo nucifera (stored seeds),	citrus stubborn disease, causal agent in,
Poa annua 2856	Callosobruchus chinensis in, imported	transmission of 5630
Potentilla norvegica 5503	into California 4676	control of, insecticides for 5630
P. recta 5503	Nemafos (see Thionazin)	in USA 2759, 5630 in USSR 2759
Prosopis spp. 3076 Pteridium aquilinum 4971	Nemapogon in Himalayan region 6026	in USSR 2739 indicator plants for 5630
Rhus radicans 4485	in Norway 4110	on Citrus, in California 5630
Rumex obtusifolius 850, 1906	Nemapogon granellus, in cheese 3116	Neoaplectana
Senecio jacobaea 5500	Nemapogon levantinus	cephalic papillae in 5853
Sesbania spp. 1909	descriptions of 6026	in, Cephalcia lariciphila, in England
Solidago altissima 3292	in Algeria 6026 in Syria 6026	5752 taxonomy of, characters distinguishing
Sonchus spp. 4614 Stachytarpheta jamaicensis 2348	Nemapogon personella, in Norway 4110	Steinernema and 5853
Stellaria graminea 5504	Nemapogoninae	Neoaplectana carpocapsae
S. media 5504	in Himalayan region 6026	against
Tribulus cistoides 1667	in India 6026	Hylobius abietis, on Pinus 5206 Scolytus scolytus, on Ulmus 531
T. terrestris 1910 Ulex europaeus 5890	Nematak (see Fosthietan) Nematicides	Spodoptera littoralis
in Canada 3354	sales of, in Finland 6701	on cotton 3822
ature reserves, insect fauna of, in	synonyms of 2128	on Trifolium 3822
Lithuania 5394	use of, in Japan 6704	attractants for, insect fecal constituents as
aucoris cimicoides (see Ilyocoris	Nematin (see Metham)	1619 culture methods for 618 4876
cimicoides) aupactini, on <i>Pinus caribaea,</i> in Colombia	Nematocera, in Finland 5403 Nematoda 340, 2077, 2401, 2654, 3418,	culture methods for 618, 4876 environmental factors as affecting 3822
5168	3522, 5231, 6514	in 3022
utica, Neoscona	Contortylenchus brevicomi 2578	Mythimna unipuncta, interaction with
utius, Chrysocharis	C. chalcographi 4645	viruses of 1128
C-6897 (see Bendiocarb)	Deladenus siricidicola 5764	rat, no effects from 2610
eacoryphus bicrucis diapause in 4826	Gryllocola thapari 4687 Heterorhabditis 5947	radioprotectives for 3695 repellents for, insect fecal constituents as
migration, reproduction and environment	H. bacteriophora 1623, 3152	1619
in 4874	Hexamermis 887	storing of 607

trapping of 607
Neoaplectana glaseri, cephalic papillae in
5853
Neobetulaphis chaetosiphon
sp. nov., description of 5210
in India 5210
on Alnus nepalensis, in India 5210
on Betula, in India 5210
neobrevipes, Dysmicoccus
neocaledonicus, Tetranychus
N'asabanashanis
Neochrysocharis
parasitising
Agromyza oryzae, in Japan 346
Pseudaonidia duplex, in Taiwan 2046
Neoclytus pusillus
biology of 3073
descriptions of 3073
in Brazil 3073
on Jacaranda acutifolia, in Brazil 3073
Neoconocephalus nebrascensis
in USA 2795
spacing and movement of singing males of
2795
Neocypholaelaps africana
in Papua New Guinea 4439
magaziticing Anic mallifora in Danua Mary
parasitising, Apis mellifera, in Papua New
Guinea 4439
Neodiprion excitans
fecundity in 1071
fungi in, in Belize 1071
in Belize 1071
in El Salvador 5167
in USA 1071
on Pinus, in El Salvador 5167
Oli Filius, il El Salvadol 5107
on Pinus echinata, in Belize 1071
on Pinus echinata, in Belize 1071 on Pinus taeda, in Belize 1071 oviposition in 1071
oviposition in 1071
parasites of, in Belize 1071
Neodiprion lecontei
biology of 564 control of 564
biological 6617, 6619
non-target effects of 6617
descriptions of 564
in Canada 564, 6617, 6619
in USA 564
on Pinus, in North America 564
on Pinus resinosa
in Ontario 6619
in Ontario 6619 in Ouebec 6617
in Quebec 6617
in Quebec 6617 Neodiprion pinetum
in Quebec 6617 Neodiprion pinetum attractants for 742
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechosłovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus myo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasites of, diapause in 2564
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasitised by
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasities of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Newfoundland
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasites of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564 Mastrus aciculatus, in Newfoundland 1592
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasities of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564 Mastrus aciculatus, in Newfoundland 1592 phenology of 3579
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasites of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564 Mastrus aciculatus, in Newfoundland 1592 phenology of 3579 sex attraction in 3581
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus myo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasites of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564 Mastrus aciculatus, in Newfoundland 1592 phenology of 3579 sex attraction in 3581 Neodiprion swainei, control of, insecticides
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasities of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564 Mastrus aciculatus, in Newfoundland 1592 phenology of 3579
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasites of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564 Mastrus aciculatus, in Newfoundland 1592 phenology of 3579 sex attraction in 3581 Neodiprion swainei, control of, insecticides for 2570
in Quebec 6617 Neodiprion pinetum attractants for 742 in USA 742 on Pinus strobus, in Wisconsin 742 Neodiprion sertifer antennae in, sensilla on 4742 biology of 5741 control of 5741 biological 1592, 1643 growth regulators for 1560 diapause in 2564 furanoid monoterpenes in 1236 in Canada 1592 in Czechoslovakia 3579 in Italy 5741 in USSR 1643, 2564 in West Germany 3581 nuclear polyhedrosis virus in detecting of 6631 formulations of 1643 nutrition of 5756 on Pinus in Italy 5741 in USSR 1643 on Pinus banksiana, in Newfoundland 1592 on Pinus mugo, in Czechoslovakia 3579 on Pinus mugo, in Czechoslovakia 3579 on Pinus myo, in Czechoslovakia 3579 on Pinus sylvestris feeding by 5756 in Newfoundland 1592 parasites of, diapause in 2564 parasitised by Exenterus abruptorius, in USSR 2564 Mastrus aciculatus, in Newfoundland 1592 phenology of 3579 sex attraction in 3581 Neodiprion swainei, control of, insecticides

```
Neoleucinodes elegantalis contd.
    on tomato, damage caused by 472
 Neolimnia
    biology of 3843
    in New Zealand 3843
preying on, snails 3843
Neomaskellia bergii
    in India 2351, 2352
    on Saccharum munja, in Uttar Pradesh
         2351, 2352
    parasitised by
       Eretmocerus mundus, in Uttar Pradesh
        Prospaltella spp., in Uttar Pradesh
             2352
    preyed on by, Cybocephalus spp., in Uttar
Pradesh 2351
 Neoneurinae, venom apparatus in 2672
neoniger, Lasius
Neophilaenus, Spiroplasmataceae in, in
Corsica 6668
 Neophilaenus campestris
    in UK 3434 in grassland, effects of cutting on 3434
Neophyllobius aegyptium, in Egypt
Neophyllobius citri, in Egypt 830
Neophyllobius gonzali
sp. nov., description of 830
in Egypt 830
in guava orchards, in Egypt 830
Neophyllobius mangiferus
sp. nov., description of 830
in Egypt 830
in mango orchards, in Egypt 830
Neophyllobius sycomorus
sp. nov., description of 830
in Egypt 830
Neoplasm inhibitors, in Bombus meri
 Neophyllobius gonzali
Neoplasm inhibitors, in Bombyx mori pupae 5493
 Neoplasms, in Sibine fusca, caused by
      Densovirus 2938
 Neoron (see Bromopropylate)
 Neorthacris simulans
    in India 5659
    on Brassica campestris, in Andhra
Pradesh 5659
 Neoscona nautica
    in India 2820
    preying on, Macrosiphum rosae, in India
2820
Neoseiulus, in Yugoslavia 1463
Neoseiulus fallacis
    attractants for, prey kairomones as 4905 development in 386 dispersal of 386 genetic improvement of 4806
    in India 1
in USA 954, 1976, 2963, 4552, 6468
in apple orchards
effects of insecticides on 6468
        effects of pesticides on 1976 in Iowa 954
        in Massachusetts 4:
in New York 2963
     insecticide resistance in 963
     insecticides in, toxicity of 965
    mortality in 386
oviposition in 386
     pesticides in, toxicity of 376
     prey consumption
                                   386
     preying on
       reying on

Panonychus ulmi 3186
and biological control using 386
in Tasmania 963
Tetranychidae, and biological control
using, in Australia 5950
Tetranychus urticae 4905
and biological control using, in
Tasmania 963
 Neoseiulus longispinosus
    in India 1
in Japan 3
                    3841, 3842
     overwintering in 3842
     preying on
        Tetranychus urticae
and biological control using, in Japan
5921
            in Hokkaido 3841
 seasonal abundance of 3841
Neosilba, on cassava, in Brazil 2498
Neostanox (see Fenbutatin oxide)
neotenicus, Armitermes
```

```
Neotermes bosei, wood in, digestion of 6329, 6330
Neotropical region
   Forcipomyia spp. in 6011
Ichneumonidae in 3099
   Opius spp. in 2836
Nepa cinerea
   in Hungary 3349
   in fish ponds, in Hungary 3349
Nepal
Braconidae in
   Isoptera in 4673
Nephotettix virescens in, on rice 6391
   Papilio polytes in, on Murraya 4291
Polistinae in 2167
   Pteromalidae in 702
Tephritidae in 4299
    Vigna radiata in, insect pests of 432
nepalensis, Trioxys

Nepetalactone (see Cyclopenta[c]pyran-
1(4aH)-one, 5,6,7,7a-tetrahydro-4,7-
     dimethyl-)
nephantidis, Brachymeria
nephantidis, Parasierola (Perisierola)
nephantidis, Perisierola (see Parasierola
     nephantidis)
 Nephantis serinopa
   biology of, review 5052
   control of
      antifeedants for 4542
biological 1434
growth regulators for 684, 4542
review 5052
   diflubenzuron in, morphogenetic effects of
        684
   in India 4542, 5052
in Sri Lanka 5052
natural enemies of, review 5052
   on coconut, in Tamil Nadu 4542
   parasite density as affecting
                                            2934
   parasites of, effects of diflubenzuron on
        4542
   parasitised by
Parasierola nephantidis 1434, 1881,
           2934
in Tamil Nadu 4542
Nephaspis, in West Indies 249
Nephelodes minians, bibliography 3826
Nephila maculata
in Philippines 904
   preying on, Cnaphalocrocis medinalis, in
Philippines 904
Nephopterix eugraphella
in India 1478
on Achras zapota, in Punjab 1478
parasites of, in Punjab 1478
predators of, in Punjab 1478
Nephotettix
   control of, insecticides for 5261 enzymes in 908
   on rice
      damage caused by 6376
effects of fertilizers on 5554
effects of weather on 3948
       in Indonesia 3415
       in Madhya Pradesh 3919
       in Thailand 325
   in West Bengal 3925
in West Malaysia 6408
parasitised by, Pipunculidae, in West
Malaysia 5546
   seasonal abundance of 3925
   traps for 6408
vamidothion resistance in, in Taiwan 900
 Nephotettix cincticeps
   carbamate resistance in, mechanisms of
        1153
   control of, insecticides for 916, 1153,
       6379
   cross-mating of, with, Nephotettix virescens 2913
   development in effects of temperature on 909, 910
   not affected by photoperiod 909 enzymes in 1153
   fecundity in, not affected by photoperiod
   in Japan 331, 916, 1153, 2914, 6379 in South Korea 910
```

insecticide resistance in, in Japan 6379 on Alopecurus aequalis 2913

distribution pattern of 333

Nephotettix cincticeps contd.	Nonhotottiv vivogoons contd	Netherlands contd.
on rice contd.	Nephotettix virescens contd.	
	on rice contd.	Aleyrodidae in 3829
effects of plant growth stage on 910	varietal preferences of 3915	buildings in, arthropod pests in 816
effects of sowing date on 910	parasites of	Cecidomyiidae in, on Betula 5190
in Japan 331, 916	in Sarawak 2651	Chrysodeixis chalcites in 423
resistance to 2913, 3385	in Thailand 911	Coleoptera in, on Ulmus 532
overwintering in 2914	population dynamics of 5031	
population dynamics of 910		Conopia myopaeformis in, on apple 1986
	predators of	Crioceris asparagi in, natural enemies of
geographical variation in 331	effects of insecticides on 6424	6502
probing by, electronic recording of 5370	in Thailand 911	C. duodecimpunctata in, natural enemies
propoxur resistance in 2721	rearing of, techniques for 6384	of 6502
rice dwarf virus in, transmission of 2913	rice dwarf virus in, not transmitted 2913	Delia brassicae in, on cauliflower 5656
rice transitory yellowing virus in,	rice ragged stunt virus in, not transmitted	Ectoedemia argentipedella in, on Betula
transmission of 896, 2913	3406, 6390	2067
rice waika virus in, transmission of 893	rice transitory yellowing virus in,	Formica polyctena in 4433, 6296
seasonal abundance of 916	transmission of 896, 2913	
sex ratio in, effects of temperature on		glasshouse crops in, arthropod pests of
910	rice tungro virus in	220
	acquisition through Parafilm of 3956	insect pests in 533
Nephotettix impicticeps (see N. virescens)	in West Bengal 3405	Liriomyza bryoniae in
Nephotettix malayanus	infectivity of 5033	natural enemies of 3807
in Malaysia 5546	transmission of 1406, 1932, 6384,	on tomato 3808
on rice, in West Malaysia 5546	6413, 6416	L. cepae in, on onion 1026
rice transitory yellowing virus in, not	seasonal abundance of 2900, 3405	Macrosiphum euphorbiae in, on Iris
transmitted 896	sex ratio in 3405, 5031	hollandica 3567
Vephotettix modulatus	Nephotettix virescens × N. cincticeps	Metopolophium dirhodum in, on wheat
in Egypt 889	on Alopecurus aequalis 2913	298
on rice, in Egypt 889	on rice 2913	Myzus persicae in, on Capsicum 3808
seasonal abundance of 889	rice dwarf virus in, transmission of 2913	Otiorhynchus sulcatus in, on strawberry
sex ratio in 889	rice transitory vellowing views in	215
	rice transitory yellowing virus in,	
Nephotettix nigropictus	transmission of 2913	Psylla pyri in, on pear 966
Beauveria bassiana in, in Orissa 2903	Nephotettix virescens × N. nigropictus	Rabdophaga spp. in, on Salix 3599
control of, insecticides for 2651	in Malaysia 334	Rhopalosiphum padi in, on wheat 298
Entomophthora spp. in, in Karnataka	rice tungro virus in, transmission of 334	shrubs in, arthropod pests of 5772
886	Nephus bipunctatus	Sitobion avenae in, on wheat 298
Hexamermis spp. in, in Karnataka 887	in Iraq 3451	Synergus spp. in, in plant galls 4186
in India 886, 887, 2903, 3405, 5031	in lucerne fields, in Iraq 3451	Tetranychus urticae in
in Malaysia 2651, 5546	Nepticula, taxonomy of 2168	on Capsicum 193
in Thailand 911, 912	Nepticula hypericella, taxonomy of,	on cucumber 193
on rice	transferred to Fomoria 2168	Thrips tabaci in, natural enemies of 202,
in Karnataka 886, 887		1634
	Nepticula pteliaeella, taxonomy of,	
in Sarawak 2651	transferred to Fomoria 2168	Tischeria ekebladella in, on Quercus 534
in Thailand 911, 912	Nepytia freemani	trees in, arthropod pests of 5772
in West Bengal 3405, 5031	adult behaviour in, diel variation in 3575	Trialeurodes vaporariorum in 6320
in West Malaysia 5546	in Canada 3575	on cucumber 3808
parasites of	sex pheromone of, variation in responses	on eggplant 193
in Karnataka 886	to 3575	on tomato 193, 194, 3808
in Sarawak 2651	Neral (see 2,6-Octadienal, 3,7-dimethyl-,	Tyria jacobaeae in, on Senecio 5500
in Thailand 911, 912	(Z)-)	Neurocolpus nubilus
population dynamics of 5031	nerii, Aspidiotus	in USA 4600
predators of	nerii, Daphnis (Deilephila)	on cotton, effects of herbicides on 4600
in Karnataka 886	nerii, Deilephila (see Daphnis nerii)	Neuroptera
in Thailand 911	Nerium odorum, insecticidal activity of	in Cayman Islands 1836
rice ragged stunt virus in, not transmitted	extracts of 5511	in Ukraine 5484
3406, 6390	Nerium oleander	in apple orchards, in Norway 5605
rice transitory yellowing virus in,	Aspidiotus nerii on, in Israel 4204	on soyabean, in Kenya 1520
	Coccus hesperidum on, in USSR 2977	parasitised by, <i>Ocencyrtus</i> spp. 3369
transmission of 896	Manduca sexta on 90	Neuropteroidea, book 6265
rice tungro virus in, in West Bengal		
3405	Saissetia oleae on, in Italy 2455	neustria, Malacosoma
seasonal abundance of 3405	Nerol (see 2,6-Octadien-1-ol, 3,7-dimethyl-,	Neutral red (see 2,8-Phenazinediamine,
sex ratio in 5031	(Z)-)	$N^8, N^8, 3$ -trimethyl-, monohydrochloride)
Vephotettix parvus	Nerolic acid (see 2,6-Octadienoic acid, 3,7-	nevadensis, Zootermopsis
in Malaysia 5546	dimethyl-, (Z) -)	New Britain, Scolytoidea in 5144
on rice, in West Malaysia 5546	nerteria, Stomopteryx (see S. subsecivella)	New Brunswick
Vephotettix virescens	neseri, Metaphycus	Aphis fabae in, on Vicia faba 6016
Beauveria bassiana in, in Orissa 2903	neserorum, Prococcophagus	Carabidae in 5409
biotypes of 6404	Nesidiocoris tenuis	Choristoneura fumiferana in 1286, 1572,
control of, insecticides for 1406, 2651,	biology of 6573	1582, 3582, 5745, 5913, 6601
2902, 3411, 6424	control of, insecticides for 6573	on Abies 6622, 6623
cross-mating of, with, Nephotettix	in Egypt 2500, 4358	on Picea 6622
cincticeps 2913	in India 1555, 6573	Pristiphora erichsonii in, on Larix 5214
development in 3929	on Lagenaria leucantha, in Gujarat 6573	New Caledonia
in Bangladesh 6404, 6424	on tobacco	biological control in 4696
in China 918	in Gujarat 6573	Scolytidae in 4724
	in Karnataka 1555	Tegonotus spirorbis in, on Acacia 2656
in India 1406, 2900, 2903, 3405, 3915,	on tomato	Tetranychus neocaledonicus in, natural
5031		
in Malaysia 2651, 5546	in Egypt 2500	enemies of 2840 New Guinea
in Nepal 6391	in Gujarat 6573	
in Philippines 323, 6404	preying on, Spodoptera litura 6573	Adraga spp. in 6625
in Thailand 911	nesis, Artogeia napi	cassava in, arthropod pests of 4592
locomotion in, effects of temperature on	nesis, Pieris napi (see Artogeia napi nesis)	New Hampshire
3900	Nesoclutha pallida	forest pests in, natural enemies of 5753
on Alopecurus aequalis 2913	cereal chlorotic mottle virus in	Illinoia lambersi in, on Rhododendron
on rice	localisation of 1122	1061
in Bangladesh 6404, 6424	morphology of 1122	Lepidoptera in, on forest trees 4932
in Bihar 2900	transmission of 867	New Hebrides
in China 918	Nesodiprion biremis	Aspidiotus destructor in, natural enemies
in Nepal 6391	in Thailand 5175	of 2935
in Orissa 1406	on Pinus, in Thailand 5175	Aulacaspis tubercularis in, natural
in Philippines 323	Netelia	enemies of 2935
in Sarawak 2651	in India 6015	Oligonychus spp. in, natural enemies of
in Theiland 011	taxonomy of 6015	2840
in Thailand 911		
in West Bengal 3405, 5031	Netherlands	Pseudaulacaspis pentagona in, natural enemies of 2935
in West Malaysia 5546	Adoxophyes orana in 4701	CHCHIICS OF 2733

New Hebrides contd.	New World	New Zealand contd.
Unaspis citri in, natural enemies of 2935	Diaulinopsis spp. in 3858	Hemiberlesia rapax in, on Actinidia
New Jersey Acraspis hirta in, natural enemies of 526	Diglyphus spp. in 3858 Iassinae in 1762	chinensis 5888 Hemiptera in 4734
Agrilus olivaceoniger in, on Quercus	Myiomma spp. in 3856	Heteronychus arator in 4531
4311	New York State	in pastures 350, 5884
Agromyza frontella in	Aculus schlechtendali in, on apple 376	Homoptera in 160
natural enemies of 2927	agricultural entomology in 2163, 3241,	Hyperodes bonariensis in, on Lolium
on lucerne 4902 Alsophila pometaria in 4931	5281 Agromyza frontella in, on lucerne 4902,	1419
Ceratocapsus cecilsmithi in, on Pinus	4921	Inopus rubriceps in in pastures 2920, 5865, 5887
2573	Alsophila pometaria in 4931, 5742	natural enemies of 5870
Hemiptera in, on Spartina 925	apple orchards in, predatory arthropods in	insect pests in 4303, 4857
Hypera postica in, natural enemies of	2963	integrated control in 4143
4538 Lepidoptera in, in oak forests 571	Argyrotaenia velutinana in, on apple 4923	Irenimus compressus in, on black curran
Lymantria dispar in 3576	Choristoneura rosaceana in, on apple	6720
natural enemies of 3100	4923	Macrosiphum euphorbiae in, on raspberr
on Quercus 571	Delia antiqua in, on onion 4047	Myzocallis carpini in, on Carpinus 519:
Megalocoleus molliculus in, on Achillea 2069	Dendroctonus jeffreyi in 522 Hypera postica in, on lucerne 355, 1955	Neolimnia spp. in 3843
Olethreutes clavana in, on hazel 1187	Hyphantria cunea in 6030	Phthorimaea operculella in, on potato
Oligonychus ilicis in, on Ilex 4917	Malacosoma americanum in, on apple	4045
Popillia japonica in 4157, 4883	2961	Plutella xylostella in
New Mexico Amblycerus robiniae in, on Gleditsia	Matsucoccus resinosae in, on Pinus 4938 Melolonthidae in, in lawns 4939	on cabbage 5888 on cauliflower 5889
5199	Miridae in, on Solidago 2855	Pyronota spp. in, in pastures 5871
Coleotechnites edulicola in, on Pinus	Orthosia hibisci in, on apple 4914	Reesa vespulae in, in insect collections
575, 576	Otiorhynchus ligustici in, on lucerne	4654
Hemileuca oliviae in 2922	4945 O. sulcatus in, on Taxus 5185	Rhaphidophoridae in, bibliography 4711 Scolytidae in 4724
Melanoplus spp. in 820 Orgyia pseudotsugata in	Panonychus ulmi in, on apple 376	Senecio jacobaea in
natural enemies of 1070	Pemphigus populitransversus in, on	Pegohylemyia seneciella for biological
on Abies 4106	Populus 3101	control of 3355
on Pinus 4106	Rhagoletis cingulata in, on cherry 377	Tyria jacobaeae for biological control o
Pogonomyrmex spp. in, natural enemies of 4974	R. fausta in, on cherry 377 R. pomonella in, on apple 377, 382, 389	3355 Sirex noctilio in, on Pinus 5764
New South Wales	Scolytus multistriatus in, on Ulmus 4924	Sminthurus viridis in, in pastures 5868
Acyrthosiphon kondoi in, on lucerne	Symmerista leucitys in	Sphecidae in 4456
1954, 6437	natural enemies of 1068	Stenopelmatidae in, bibliography 4718
agricultural entomology in 2161 Aphodius tasmaniae in, in pastures 1948	on Acer 1068 Tarsonemus spp. in 2762	Synanthedon tipuliformis in natural enemies of 1444
Artogeia rapae in, natural enemies of	New Zealand	on black currant 1444, 1963
1497	Aculus cornutus in, on nectarine 3997	Teleogryllus commodus in 4531
Calomela spp. in, on Acacia 4730	Acyrthosiphon kondoi in	in pastures 3979
Camponotus spp. in 6021 Chortoicetes terminifera in 2793, 6274,	natural enemies of 2042 on lucerne 5049, 5879, 5880, 5881	Tetranychus urticae in, on apple 1155 Vespidae in 4302
6275, 6276, 6279, 6280, 6282	A. pisum in 1504, 4584	Vespula germanica in 829
in pastures 4529, 5458	on lucerne 5049, 5879, 5880	Wiseana spp. in 1946
natural enemies of 2322	Aenetus virescens in, in wood 4104	in pastures 350, 1949, 5866
Citrus in, biological control on 5949 cotton in, pest management on 4598,	agricultural entomology in 1760 Anisoplaca ptyoptera in, on Ulex	Newfoundland Cerapteryx graminis in, in grassland 92
4599	europaeus 5890	Coleophora serratella in, on Betula 306
Cyrtacanthacris guttulosa in 822	Apis mellifera in, natural enemies of	forest entomology in 6616, 6624
Dacus tryoni in 2239	3840	Lepidoptera in 4865
Ephestia cautella in 1110 E. kuehniella in 1110	Artogeia rapae in on cabbage 5888	Neodiprion sertifer in natural enemies of 1592
Heliothis armigera in 4608	on cauliflower 5889	on Pinus 1592
natural enemies of 6569	Aulacorthum solani in 1504	Nezara
H. punctigera in 4608	on lucerne 5049	on Vigna radiata, in Sri Lanka 429
natural enemies of 6569 Heteronychus arator in, in lawns and	biological control in 4143 Brevicoryne brassicae in, on rape 6505	parasitised by, Aporophlebus striaticeps 5288
sports turf 1424	Carduus nutans in	Nezara antennata
insect quarantine interceptions in 1606	Ceuthorhynchidius horridus for	biology of 1513
insecticide use in 5960	biological control of 3872	distribution of 1513
legislation on 636	Rhinocyllus conicus for biological	in Japan 1513
Locusta migratoria in 823 meat in, pesticide residues in 5981	control of 3872 Carulaspis juniperi in 2083	on soyabean, in Japan 1513 parasites of, in Japan 1513
Mythimna convecta in, in pastures 927	Chrysodeixis chalcites in 4823	Nezara viridula
Myzus persicae in 1695	Coleophora frischella in, on Trifolium	aggregation pheromone in 6109
on potato 1700	6439	biology of 1513, 1937, 4062
Nysius vinitor in, on sunflower 2100 Pheidole spp. in, on Phalaris 5576	C. spissicornis in, on Trifolium 6439 Coleoptera in 4304	control of biological 5107, 5948, 5952
Phytoseiidae in 1957	in pine forests 4875	cultural 2488
Plodia interpunctella in 1110	Corvus frugilegus in, prey of 2919	insecticides for 439, 1698, 4586, 6520
in stored groundnuts 1701	Costelytra zealandica in 3723	Corynebacterium spp. in, transmission of
Plutella xylostella in, natural enemies of 1497	in pastures 350, 1422, 1949, 5872, 5874, 5875, 5876, 5878	4037 development in 1410
Psylla candida in, natural enemies of	natural enemies of 5873	distribution of 1513
3067	Ctenopseustis obliquana in, on apple	food-plants of 2350
P. jucunda in, natural enemies of 3067	5888	illustrations of 1937
Rhyzopertha dominica in in stored grain 1116	Cydia pomonella in, on apple 2956, 5889 dairy factories in, arthropods in 6638	in Australia 1937, 5948, 5952 in Brazil 1516
in wheat grain 5225	entomophagous insects in 4694	in Cape Verde 137
Scolypopa australis in, on Passiflora	Epiphyas postvittana in, on apple 5888,	in Egypt 1013, 2500, 4062, 4342, 4358 in India 798, 2350, 2488, 5659
3248	5889	in India 798, 2350, 2488, 5659
soyabean in, insect pests of 1518 Spodoptera mauritia in, in pastures 927	Eriosoma lanigerum in, on apple 5885 Eudonia sabulosella in, in pastures 5867	in Indonesia 3415 in Japan 1513
Therioaphis trifolii in, on lucerne 1954,	forest entomology in 5778	in Kenya 1541
4541, 6437	Fulgoroidea in 4210	in Montserrat 5121
Tuberculatus annulatus in, natural	Heliothis armigera in	in Philippines 449
enemies of 3067 Vespula germanica in 829, 4977	on maize 5889 on tomato 5889	in Thailand 439 in USA 1484, 3526, 4037, 4586, 6109
. John Pormanon III 027, 7711	OIL WILLIAM JOO)	11 0021 1101, 3020, 1037, 1300, 0107

Subject mack		
Nezara viridula contd.	Nigeria contd.	nigropilosus, Thrips
insecticide susceptibility in, developmental	Dicraeus pennisetivora in, on Pennisetum	nigropunctata, Monell
changes in 1698	americanum 2899	nigropunctata, Monell
mating in 5373	Didacus vertebratus in, on cucurbits 422	nigropunctata)
Nematospora coryli in, transmission of	Diopsis macrophthalma in, on Cyperus	nigrorepletus, Hierogl
4037	3973	nigrotibialis, Argyropi
on Brassica campestris, in Andhra	Empoasca spp. in 24	Nilaparvata, taxonom
Pradesh 5659	E. dolichi in, on Vigna unguiculata 4585	Nilaparvata lugens
on Cajanus cajan, effects of intercropping on 2488	entomological literature from 690	Beauveria bassiana
on cotton	foodstuffs in, pest control in 6650 Isoptera in 5486	2903
in Egypt 4062	natural enemies of 3868	biology of 338, 23 biotypes of 339, 23
in Montserrat 5121	Lixus camerunus in, on Vernonia 2986	3911, 3960, 451
on lucerne, in Egypt 4062	Macrotermitinae in	biological nature
on orange	in grassland 4524	field identifying o
damage caused by 4342	natural enemies of 2329	insecticide suscep
varietal preferences of 4342	Maruca testulalis in	carbamate resistance
on rice, in Indonesia 3415	natural enemies of 6514	carbofuran in, poiso
on sorghum, damage caused by 1937	on Vigna unguiculata 455	carbofuran resistano
on soyabean	Megalurothrips sjostedti in	3398, 3410, 450
damage caused by 456, 1516	natural enemies of 6515	conference on 238
in Egypt 1013	on Vigna unguiculata 455, 4585	control of 337, 34
in Japan 1513	Megaponera foetens in 1818	antifeedants for
in Louisiana 4037, 4586 in USA 1484	Microtermes spp. in 134 mites in, on plants 6269	biological 339, 3
resistance to 3526	oil-palm kernels in, insect pests of 6645	cultural 330, 34 6383
on sunflower, in Kenya 1541	pest control in 1680, 1685	insecticide-pathog
on tomato, in Egypt 2500	pesticide use in 1686	insecticides for
on Vigna radiata	pollution and 1682	340, 341, 343,
in Thailand 439	plant protection in 3238	2651, 2902, 29
resistance to 450	Rhyzopertha dominica in, in maize grain	3398, 3399, 34
varietal preferences of 449	3650	3917, 3928, 39
oviposition in 5373	Sahlbergella singularis in, on cacao 6575	3959, 3960, 39
parasites of	Sitophilus oryzae in, in maize grain 3650	5555, 5563, 55
attraction to hosts of 6109	S. zeamais in, in maize grain 3650, 6649	integrated 1412
in Japan 1513	stored groundnuts in, insect pests of	non-target effects
parathion-methyl in, developmental	6647	spray equipment
changes in susceptibility to 4586	stored maize in, insect pests of 4663	spray volumes for threshold for 23
population dynamics of 4062 Pseudomonas spp. in, transmission of	stored-product entomology in 6644 stored products in, pest control in 3624	
4037	Tinea fictrix in, in maize grain 2088	timing of 1935, traps for 3916
Rhizopus stolonifer in, transmission of	Tribolium castaneum in, in maize grain	dispersal of 1403
4342	3650	distribution of 238
seasonal abundance of 1541	Tridesmodes ramiculata in, on Terminalia	diurnal activity in
Trichoderma spp. in, transmission of	1578	ecology of, review
4342	Trinervitermes geminatus in, in grassland	Entomophthora spp
ni, Autographa (see Trichoplusia ni)	4524, 4525, 4526	886
ni, Trichoplusia (Autographa)	Vigna unguiculata in	E. sphaerosperma is
Nicaragua	insect pests of 5104	5843
Anthonomus grandis in, on cotton 484	pest control on 455 yam chips in, insect pests of 3651	enzymes in 3412, feeding behaviour in
cotton in, pest control on 4951 forest pests in 5172	Zonocerus variegatus in 62, 788	flight activity in 6
pesticide use in 4948	on cassava 4593	effects of laborate
nicevillei, Stenobracon	nigerrimus, Ooencyrtus	food-plants of 238
Nicobium castaneum, in wood, damage	Nightshade, hairy (see Solanum	Hexamermis spp. in
caused by 6661	sarrachoides)	honeydew of, used a
Nicobium hirtum, in wood, damage caused	Nightshade, silver-leaf (see Solanum	Cnaphalocrocis .
by 6661	elaeagnifolium)	in Bangladesh 340
nicolasi, Campylomma	nigra, Calophya nigranum, Olethreutes	in China 895, 915 in India 327, 335,
Nicotiana, Heliothis tergeminus on, in	nigranum, Olethreutes	
Colombia 6023	nigrella, Saissetia	343, 345, 886, 8
Nicotiana benthamiana, yam mosaic virus	nigrescens, Neivamyrmex nigriabdominalis, Tetraneura	1885, 2390, 3393 3948, 3963, 397
in, infectivity of 3028 Nicotiana tabacum (see Tobacco)	nigricana, Cydia (Laspeyresia)	5553, 5554, 6383
Nicotine (see Pyridine, 3-(1-methyl-2-	nigricana, Laspeyresia (see Cydia nigricana)	6402, 6419
pyrrolidinyl)-, (S)-)	nigricans, Acanthoderes	in Indonesia 321,
Niesthrea louisianica, exocrine secretions in	nigricans, Enoclerus	4513
4236	nigricans, Formica	in Japan 895, 1403
nietzkei, Liriomyza	nigricans, Oncometopia	2912, 6719
Nigella sativa, Spodoptera litura on, in	nigriceps, Cardiochiles	in Malaysia 322, 2
Andhra Pradesh 3874	nigriceps, Nasutitermes	3916, 5546, 6400
nigellus, Ceratocapsus	nigricollis, Ageniaspis	in Philippines 323 3400, 3402, 3410
Niger Catantops haemorrhoidalis in 5455	nigricornis, Chrysopa nigricornis, Oecanthus	3967, 4509, 5299
locust control in 5899	nigricornis, Phytoecia	in Solomon Islands
Oedaleus senegalensis in 5903	nigrifrons, Graminella	in South Korea 23
niger, Athous (see Hemicrepidius niger)	nigrinus, Hylastes	in Sri Lanka 324.
niger, Hemicrepidius (Athous)	nigripennis, Exochomus	in Taiwan 1935, 2
niger, Lasius	nigripennis, Longitarsus	in Thailand 325, 9
Nigeria	nigripes, Aphidius	6719
agricultural entomology in 696, 4180	nigripes, Blondelia	in Vietnam 803
Antigastra catalaunalis in, on sesame	nigripes, Mesochorus	insecticide resistanc
1032	nigripes, Stethorus	insecticide susceptib wing-form ratio
cacao beans in, insect pests of 6645,	nigrirostris, Hypera nigritus, Aphelinus	insecticides in
6646 cacao in, pest control on 1684	nigritus, Aphennus nigrivenella, Mussidia	effects on reprodu
Cajanus cajan in, insect pests of 1016	nigriventris, Meromyza	ovicidal activity
Chalcidoidea in 4462	nigrocellulata, Cremifania	isoprocarb resistanc
Characoma stictigrapta in, on cacao	nigroclypeatus, Idiocerus (see Idioscopus	in Philippines 3.
6576	nigroclypeatus)	in Taiwan 3906
Coreidae in, on Vigna unguiculata 454	nigroclypeatus, Idioscopus (Idiocerus)	isoprothiolane in, ef
Dacus bivittatus in, on cucurbits 422	nigrolineata, Parena	of 1705 mating in 3249
The authorne in an alloughite 477	and the real section of the section	HIMITIN III 3744

ia (Monelliopsis) liopsis (see Monellia yphus hylax y of 2382 in, pathogenicity of 382, 2383, 3242, 4514 3398, 2399, 3412, 3413, 4, 6402, 6419 of 5299 of 4513 otibility of 3397 the in, in Taiwan 5568 oning by 6392 ce in, in Philippines 0 34, 4514 339 340, 341, 342, 3944 11, 343, 2402, 3698, gen mixtures for 339 330, 335, 338, 339, , 1935, 2385, 2388, 912, 3395, 3396, 3397, 400, 3407, 3410, 3411, 939, 3944, 3951, 3958, 961, 3963, 3970, 4179, 564, 6392, 6399, 6719 of 6423 for 6399 r 3400 387, 2906 2385, 2388 3916 2384 in, in Karnataka n, spore formation by 6392 n 3413 5108, 6406 ory rearing on 6400 a, in Karnataka 887 as sugar source by medinalis 4517 99 , 918 338, 339, 341, 342, 87, 888, 899, 1401, 3, 3919, 3939, 3943, 1, 4507, 4508, 4514, 3, 6393, 6397, 6399, 330, 1412, 2391, 3934, 3, 2383, 2385, 2386, 2651, 3399, 3407, 3408, 0, 6406, 6408, 6423, 3389, 3396, 3398, 0, 3911, 3928, 3960, 9, 6388, 6719 2394, 3698, 4179 2394, 3698, 4179 383 4514 2906, 3906, 5568, 6376 911, 912, 2397, 3951, e in, in Kyushu 2912 oility in, relation of and 6719 uction of 3927, 3928 of 3395, 3959, 3970 te in 398 fects on reproduction

```
Nilaparvata lugens contd.
                                                                                                                                           Nilaparvata lugens contd.
                                                                                                                                                                                                                                                                                        nivella, Tryporyza
       3-methylphenyl methylcarbamate
                                                                                                                                                   preyed on by contd.
                                                                                                                                                                                                                                                                                        nixoni, Gryon
      resistance in, in Taiwan 3906
migration in 895, 2233, 2383, 2386, 2403
                                                                                                                                                         Cyrtorhinus lividipennis contd.
                                                                                                                                                                                                                                                                                         No-tillage, of maize fields, effects on
                                                                                                                                                               in Solomon Islands 3698
                                                                                                                                                                                                                                                                                                 Elasmopalpus lignosellus of 1387
     monocrotophos resistance in, in Philippines 3398 natural enemies of 340
                                                                                                                                                         Tetrastichus spp., in Philippines 3967
Tytthus chinensis, in Solomon Islands
                                                                                                                                                                                                                                                                                        noacki, Cales
                                                                                                                                                                                                                                                                                       noacki, Cales
nobilis, Ctenophthalmus
noctilio, Sirex
noctiluca, Pipiza
Noctua, larval development in 3802
Noctua fimbriata
in Greece 1966
on grapevine, in Greece 1966
parasites of, in Greece 1966
Noctua orbona
                                                                                                                                                                  3698
            review 2401
                                                                                                                                                  rearing of, diets for 175 research on, funded by UK 6002
      on Echinochloa crus-galli, resistance to
                2399
                                                                                                                                                  rice grassy stunt virus in, transmission of 330, 1931
          n rice
antifeedants for 4516
assessing infestations of 1319, 2384
damage caused by 338, 2381, 2387,
2906, 6376, 6393, 6423
distribution pattern of 2383
effects of cultural practices on 2384
effects of fertilizers on 341, 1401,
5554, 6383
effects of plant growth stage on
effects of plant growth stage on
effects of plant spacing on 342
effects of ploughing on 341
effects of weather on 3948
effects of weed control on 341
effects of wind speed on 342
forecasting infestations of 2385
in Bangladesh 3409
in China 918
      on rice
                                                                                                                                                   rice ragged stunt virus in, transmission of 330, 883, 884, 885, 3406, 3937, 6405 seasonal abundance of 3919
                                                                                                                                                                                                                                                                                     parasites of, in C.

Noctua orbona
in Greece 1966
on grapevine, in Greece 1966
parasites of, in Greece 1966
Noctua pronuba
celestial orientation in 2742
abemoprints of 2223
                                                                                                                                                 scasonal abundance of 3919
starvation tolerance in 895
taxonomy of 2382
characters for 3911
temperature as affecting 2382
temperature variations as affecting 34
traps for 339, 341, 1403, 2385, 2386,
6406, 6408
                                                                                                                                                                                                                                                                                              in Egypt 5721
in UK 2223
seasonal abundance of 5721
                                                                                                                                                            6406, 6408
                                                                                                                                           triprene in, effects on ovarian development
of 2403
variation in 4514
wing forms in 2382
Nimbolin A, in Melia azedarach wood, role
                                                                                                                                                                                                                                                                                         Noctuidae
                                                                                                                                                                                                                                                                                              attractants for 3236
                                                                                                                                                                                                                                                                                            attractants for 3230
control of
biological 4174
insecticides for 1456, 6712
in Arunachal Pradesh 2756
in Caucasus 5419
in Comoro Islands 5449
in Italy 6125
in Romania 106
in Siberia 5417
in Soviet Far East 1188
in USSR 2752
in Yugoslavia 5965
on apple, in Switzerland 1456
on Betula, food competition in 4099
on hardwood forest trees, dietary preferences of 4932
on jute, in West Bengal 1051
on leek, damage caused by 5699
on onion, in Zimbabwe 6547
on rice, in India 1930
on wheat, in Yugoslavia 2869
                                                                                                                                                                                                                                                                                              control of
                                                                                                                                            in termite resistance of 1356
Ninebark (see Physocarpus opulifolius)
            in China 918
in India 343
                                                                                                                                            Nipaecoccus filamentosus
                                                                                                                                                  control of, insecticides for 4009 in India 4009
           in Indonesia 321, 1412, 4513
in Japan 1403
          in Japan 1403
in Karnataka 886, 887, 3963, 3971
in Madhya Pradesh 3919
in Philippines 323, 3396, 3410, 4509
in Punjab 5553
in Sarawak 2651
in Sri Lanka 324
in Taiwan 1935, 3906
in Tamil Nadu 335, 345, 3393, 4508
in Thailand 325, 911, 912, 3951
in Uttar Pradesh 3943, 6419
in West Bengal 888, 899, 4507, 6397, 6399
                                                                                                                                                   on pomegranate, in Rajasthan 4009
                                                                                                                                            Nipaecoccus viridis
in India 4493
                                                                                                                                          on Tamarinus indica, in India 4493
niponensis, Carposina
Nipponaphidini, taxonomy of, chromosomes
as characters for 3728
nipponensis, Elatophilus
nipponensis, Meteorus (see M.
pulchricornis)
nipponica, Dacnusa
nipponica, Diprion
nipponica, Diprion
nipponicus, Megastigmus
nipponicus, Phytoseius
Niptus hololeucus
in West Germany 3107
in dwellings, in West Germany 3107
Nisaga simplex
                                                                                                                                                   on Tamarindus indica, in India 4493
    in West Bengal 886, 899, 4307, 0397, 6399
in West Malaysia 322, 3407, 3408, 3916, 6406, 6408
reinfestation by 3399
resistance to 330, 339, 340, 341, 915, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2910, 3402, 3698, 3897, 3960, 4179, 4514, 5548, 6388, 6402, 6412, 6414
evaluating of 5547
genetics of 3403, 3899
mechanisms of 5560
role of oxalic acid in 6385
screening for 3389, 3401
silicic acid not involved in 6389
varietal preferences of 3934
outbreaks of
caused by insecticides 3389, 3402, 3927, 3928, 6388
causes of 2401
ovarian development in 2403
parasites of
                      6399
                                                                                                                                                                                                                                                                                              on wheat, in Yugoslavia
                                                                                                                                                                                                                                                                                              pheromones in, receptors for 1726
physiology of, Chinese research on 2189
rearing of, diets for 1850
                                                                                                                                            Nisaga simplex
biology of 6418
control of, insecticides for 2378, 6418
in India 2378, 6418
                                                                                                                                                                                                                                                                                              scent organs in 163
taxonomy of 1188
                                                                                                                                                                                                                                                                                         Noctuinae, in British Isles 163
                                                                                                                                                                                                                                                                                         Nodonota
                                                                                                                                                                                                                                                                                              cowpea mosaic virus in, not transmitted 1011
                                                                                                                                                   on rice, damage caused by 2378, 6418
                                                                                                                                          on nee, damage caused by 2378, 6418
Nisia atrovenosa, mung bean yellow mosaic
virus in, not transmitted 443
nitens, Metasyrphus (Syrphus)
nitens, Patasson
nitens, Schistocerca
nitens, Syrphus (see Metasyrphus nitens)
nitescens, Pseudocatolaccus
nitida, Platygaster (Prosactogaster)
nitida, Prosactogaster (see Platygaster
nitida)
                                                                                                                                                                                                                                                                                              on Vigna unguiculata, in Costa Rica
1011
                                                                                                                                                                                                                                                                                         Nodostoma fulvicorne (see Basilepta
                                                                                                                                                                                                                                                                                                 fulvicornis)
                                                                                                                                                                                                                                                                                        Nodostoma subcostatum (see Basilepta subcostatum)
Nola sorghiella
control of, cultural 1415
in Mexico 923
in USA 1415
on sorghum
       parasites of
                                                                                                                                           nitidicollis, Epistrophe (Syrphus)
nitidicollis, Syrphus (see Epistrophe
nitidicollis)
nitidior, Nupserha
Nitidulidae, in woodland, in Czechoslovakia
            in Karnataka 886, 1401, 3971
in Sarawak 2651
in Sri Lanka 324
in Thailand 911, 912
                                                                                                                                                                                                                                                                                                     damage caused by 923
                                                                                                                                                                                                                                                                                                     effects of sowing date on 1415
                                                                                                                                                                                                                                                                                                      in Texas 1415
       parasitised by
                                                                                                                                                                                                                                                                                         Nolidae
             Anagrus spp., in Orissa 327
Oligosita spp., in Orissa 327
Pipunculidae, in West Malaysia 5546
                                                                                                                                                                                                                                                                                              in British Isles 163
taxonomy of 1188
                                                                                                                                             Nitidulini
                                                                                                                                            in Fortugar 697 in Spain 697 in Spain 697 intridus, Scaphytopius
Nitrification, in soil, not affected by insecticides 2141
                                                                                                                                                   in Portugal 697
                                                                                                                                                                                                                                                                                         nolophanae, Rogas
                                                                                                                                                                                                                                                                                        Nomada, mandibular glands in, secretion of 3744
             Tetrastichus spp.
in Orissa 327
     in Orissa 327
in Philippines 3967
population dynamics of 341, 342, 345, 1403, 2384, 3948
predators of effects of insecticides on 3407, 3698, 3939, 4179
in Karnataka 886, 1401, 3971
in Thailand 911
in West Malaysia 3408
nematodes in 887
preved on by
                                                                                                                                                                                                                                                                                       Nomadacris, taxonomy of, synonym of Cyrtacanthacris 233
Nomadacris septemfasciata (see Cyrtacanthacris septemfasciata)
Nomia melanderi, Trochometridium spp. associated with 135
                                                                                                                                            nitrisigna, Autographa
                                                                                                                                            Nitrogen
                                                                                                                                           Nitrogen
as protective atmosphere for γ-irradiation of Anthonomus grandis 3757
in insect feces, determination of 1814
in insects, determination of 1814
in Pinus sylvestris, utilisation by Neodiprion sertifer of 5756
radiation sterilisation of Anthonomus grandis in 3551
Nitrogen fixation, in soyabean, not affected by insecticides 2141
Nitrosan (see DNOC)
Niue
                                                                                                                                                                                                                                                                                         Nomuraea rileyi
                                                                                                                                                                                                                                                                                              against
                                                                                                                                                                                                                                                                                                     Achaea janata, on castor 1031
Agrotis ipsilon 3890
Heliothis virescens, on cotton 4060
       preyed on by
Araneae
                   in Kerala 3939
in West Bengal 4507, 6397
                                                                                                                                                                                                                                                                                                     Anticarsia gemmatalis
in Brazil 5672
              Cyrtorhinus spp., in Solomon Islands
                                                                                                                                                                                                                                                                                                            in Colombia 6522
                      4179
                                                                                                                                                                                                                                                                                                      Heliothis zea
             C. lividipennis
in India 1885
                                                                                                                                                                                                                                                                                                           in Antigua 5121
in North Carolina
                                                                                                                                                   biological control in
                                                                                                                                                   Scolytidae in 4724
```

Subject Index Nomuraea rileyi contd. 2,6-Nonadienoic acid, 7-ethyl-9-(3-ethyl-3-Heliothis zea contd. interactions with other pathogens of 1626 pathogenicity of 6675 Mamestra brassicae, pathogenicity for eggs of 6672 3279 mouse, no effects from 1620 Mythimna spp., in Queensland 1921 Plathypena scabra, in North Carolina 460 Plusia spp., in Brazil 5672 Pseudoplusia includens Pseudoplusia includens
in Antigua 5121
in North Carolina 460
rabbit, no effects from 1620
rat, no effects from 1620
Spodoptera littoralis
pathogenicity for eggs of 6672
pathogenicity of, effects of
temperature on 6680
Telenomus proditor, not pathogenic
1031 757 1031 insect hormones in, effects of 3720 Nonacosane, 11,15-dimethyl-, in Lasioderma serricorne cuticle 5331 Nonacosane, 11-methyl-, in Lasioderma serricorne cuticle 5331 Nonacosane, 13-methyl-, in Lasioderma serricorne cuticle 5331 -Nonadecen-11-one (Z)dispensers for 6458 with (Z)-7-eicosen-11-one, attractant for, Carposina niponensis 6458 ,6-Nonadienoic acid, 9-(3,3-dimethyloxiranyl)-3,7-dimethylnethyl ester
in Apis mellifera, effects on queen
induction of 1165
in Beauveria bassiana, promoting
growth 3720
in Daphnis nerii, effects on larval
melanisation of 2196
in Leptinotarsa decemlineata,
developmental changes in 4782
in Leptinotarsa decemlineata
hemolymph, diapause and titre of
5341 methyl ester 5341 in Locusta migratoria corpus allatum, biosynthesis of 3332 in Locusta migratoria eggs 5456 in Megoura viciae, developmental changes in sensitivity to 4715 in Microctonus aethiopoides, effects of 6241 in Microctonus colesi, effects of 6241 in Nasonia vitripennis, effects on larval diapause of 3277 in Nomuraea rileyi, no effects from in Oncopeltus fasciatus, reversing precocene inhibition of flight activity 4222 4222
in Prorhinotermes simplex, inducing soldier caste formation 5001
in Reticulitermes santonensis, inducing soldier caste formation 5001
in Schistocerca gregaria effects on mating of 1268 effects on coloration of 1268 effects of starvation and feeding on synthesis of 1811
effects of temperature on 6288 Nonanal

methyloxiranyl)-3-methyl- contd. methyl ester contd.
in Diatraea grandiosella, effects on diapause of 2216 in Drosophila hydei, metabolism of in Galleria mellonella hydrolysis of 3268
protein binding of 3268
in Leptinotarsa decemlineata role in vitellogenesis regulation of 2715 developmental changes in 4782 in Locusta migratoria effects on ovarian development of morphogenetic effects of 5987 in Locusta migratoria corpus allatum, biosynthesis of 3332 in Locusta migratoria eggs 5456
in Locusta migratoria hemolymph,
developmental changes in 2218
in Lygaeus kalmii, effects of 1163
in Manduca sexta
dependence of ovarian development
on 2717
metabolism of 2352 metabolism of 3252 metabolism of 3252
protein binding of 3252
in Megoura viciae, developmental
changes in sensitivity to 4715
in mouse cell lines, toxicity of 4168
in Nasonia vitripennis, effects on larval
diapause of 3277
in Pheidole pallidula, effects on caste
determination of 4970
in Pieris brassicae larvae developmental in Pieris brassicae larvae, developmental changes in 1234 in Schistocerca gregaria
effects on coloration of 1268
effects on mating of 1268 effects on mating of 1268
in Trichoplusia ni, induction of JH
esterase by 1216
2,6-Nonadienoic acid, 9-(3-ethyl-3methyloxiranyl)-3,7-dimethylmethyl ester
in Diatraea grandiosella, inducing larval
diapause 6088
in Leptinotarsa decemlineata,
develonmental changes in 4782 developmental changes in in Leptinotarsa decemlineata 4782 hemolymph, diapause and titre of in Locusta migratoria corpus allatum, biosynthesis of 3332 in Locusta migratoria eggs 5456 in Megoura viciae, developmental changes in sensitivity to 4715 in Nasonia vitripennis, effects on larval diapause of 3277 in Trichoplusia ni, induction of JH esterase by 1216
2,6-Nonadienoic acid, 8-(3-methoxy-3-methylcyclopentyl)-3,8-dimethyl-, ethyl ester, against, Pyrthocoris apterus 1715 nonagrioides, Sesamia γ-Nonalactone (see 2(3H)-Furanone, dihydro-5-pentyl-)
Nonanal changes in sensitivity to 4715 in almond hulls 6453 in maize oil 2649 Nonanoic acid attractant for, Eucera longicornis 4437 in almond hulls 6453 attractant for, Eucera longicornis 4437 in Oecophylla longinoda mandibular-gland secretion 47 1-Nonanol, 9-(2-cyclopenten-1-yl)-Argyrotaenia velutinana responses to enantiomers of 666
Ostrinia nubilalis responses to enantiomers of 666 2-Nonanol in maize oil 2649 in maize oil 2649
in Xiphomyrmex mandibular gland
secretion 4761
6-Nonenoic acid
methyl ester, (E)attractant for, Ceratitis capitata 3722
dispensers for 3722

Norepinephrine (see Levarterenol)

Noreugenin (see 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-methyl-) L-Norleucine, in Spodoptera littoralis, effects of insecticides on 4362, 4363 North Carolina Agrilus arcuatus in, on Corylus 4311 Alsophila pometaria in 1562, 4931 Alsophila pometaria in 1562, 4931
Anthonomus grandis in, on cotton 2526
Aphis spp. in, on tobacco 3560
Caloglyphus spp. in, on groundnut 2019
Cerotoma trifurcata in 1003
on soyabean 1509, 1510, 2485, 4589
Dendroctonus spp. in, on Pinus 5191
D. frontalis in, on Pinus 535, 5749
Drosophila spp. in, natural enemies of 4890
D. melanogaster in antival D. melanogaster in, natural enemies of 2811 Eudiagogus spp. in, on Sesbania 1909 Formicidae in, natural enemies of 1331 Heliothis virescens in 1214 natural enemies of 2041 on tobacco 2041 H. zea in H. Zea In
on sorghum 2041
on soyabean 460, 2041
Hylobius pales in 1590
Lipaphis erysimi in, on turnip 4046
Lymantria dispar in 5194
Manduca sexta in, on tobacco 3560
Myzus persicae in, on tobacco 3560 Oulema melanopus in, natural enemies of 4504 Plathypena scabra in, on soyabean 460, 2041 Popillia japonica in 2263 Pseudoplusia includens in, on soyabean 460 Rhopalosiphum maidis in, on tobacco 3560 Tingidae in 573 Tribolium castaneum in 1608 Xyleborus crassiusculus in, on plum 970 North Dakota Octor Dakota
Coleoptera in, in soil and plant litter 264
Diabrotica virgifera in 6248
Nacerdes melanura in, in buildings 5825
Podosesia syringae in, on Fraxinus 565, Prionoxystus robiniae in 1569, 6202 on Fraxinus 3085 Smicronyx fulvus in natural enemies of 1539 on sunflower 1539, 2033, 6259 sunflower in, insect pests of 6260 North Korea Aphidiidae in 3347 Cerambycidae in 4301 Drepanosiphoninae in 5402 Acari in 4407 apple in, arthropods associated with 5605 Betula spp. in, insect pests of 5150 Cheilosia fasciata in, on Allium ursinum Ectomyelois ceratoniae in 4111 Ephestia calidella in, in imported figs E. figulilella in, in imported figs 4111 Formicidae in 2801, 4427 Ips typographus in, on Picea 2563, 6589 Lepidoptera in 4110 Portevinia maculata in, on Allium ursinum 4594 Rhagoletis alternata in, on Rosa Xyloterus lineatus in, on Picea 4621 Nosema Euproctis chrysorrhoea, in Yugoslavia 5863 Lema cyanella, in West Germany 1904 Lymantria dispar, in Yugoslavia 5863 Pericallia ricini 5238 Spodoptera litura 5238 in India 1638 Nosema acridophagus Heliothis zea, spore production by Melanoplus sanguinipes, spore production by 4133

6-Nonadienoic acid, 7-ethyl-9-(3-ethyl-3-methyloxiranyl)-3-methyl-in Drosophila hydei, JH metabolite 3279 in Manduca sexta, JH metabolite 3252 in Mandica sexia, 317 inclaiments of the methyl ester in Apis mellifera, effects on queen induction of 1165 in Bombyx mori, effects on ovarian development of 5008 in Daphnis nerii, effects on larval melanisation of 2196

effects of temperature on 6288 in *Trichoplusia ni*, degradation of

in Tritirachium dependens, no effects

from 3720 methyl ester, (2E,6E)-, in insects, formation from methyl farnesoate of

in, Anopheles stephensi, infectivity of	in India 796	fumigants in, residues of 585
1631 spores of	Notodontidae in British Isles 163	insecticides in, residues of 585 pest control in 2942
cleaning of 613	on Betula, food competition in 4099	Nuvacron (see Monocrotophos)
preserving of 1631	Notonecta, on man, bites by 3781	Nuvan (see Dichlorvos)
Nosema apis, in, Apis mellifera, in Papua New Guinea 4439	Notonecta glauca in Hungary 3349	nuxvorella, Acrobasis nyemitawus, Tetrastichus
Nosema bombycis	in fish ponds, in Hungary 3349	Nymphaea, Galerucella nymphaeae on, in
in	Notostira elongata	USSR 1343
Agrotis segetum, pathogenicity of 5241	in UK 3443 in grassland, effects of cutting on 3443	nymphaeae, Galerucella Nymphalidae
Artogeia rapae, pathogenicity of 5241	Notoxus	in Spain 5412
Autographa gamma, pathogenicity of	in Mexico 1647	on rice, in India 1930
5241 Bombyx mori, pathogenicity of 2109	in cotton fields, sampling of 1550 Notoxus monodon	Nymphalis antiopa adult behaviour in 4651
Heliothis armigera, pathogenicity of	in USA 1047	in UK 4651
5241	in cotton fields, effects of insect-resistant	in USA 4651
Lymantria dispar, not pathogenic 5241 Pieris brassicae, pathogenicity of 5241	varieties on 1047 Nougat, insect fragments in, detecting of	Nymphula control of
Spodoptera exigua, pathogenicity of	3123	insecticides for 278
5241	Nova Scotia	repellents for 3902
Nosema cerasivorana, in, Archips cerasivoranus, in Ontario 5842	apple in, insect pests of 1977 Choristoneura fumiferana in 3582	on Azolla, in Orissa 278 on rice, in Philippines 3902
Nosema cuneatum	Epitrimerus pyri in, on pear 969	Nymphula depunctalis
in	Pikonema alaskensis in, natural enemies of	biology of 914
Heliothis zea, spore production by 4133	5211 Novabac (see Bacillus thuringiensis)	control of, insecticides for 2372 in India 914, 2254, 3393
Melanoplus sanguinipes, spore	novahebridensis, Colomerus	in Indonesia 3415
production by 4133	noveboracensis, Camponotus	in Philippines 892, 2372
Nosema disstriae, in, Malacosoma disstria, effects of antibiotics on 617	novemdecimpunctata, Anisosticta novemnotata, Coccinella	light responses in 2254 on Cynodon dactylon, in Kerala 914
Nosema fumiferanae, in, Choristoneura	Novia Scotia, Typhlocyba pomaria in,	on Cyperus iria, in Kerala 914
fumiferana, in Ontario 6633	natural enemies of 384	on Cyperus rotundus, in Kerala 914
Nosema heliothidis	noxia, Diuraphis (Brachycolus) noxius, Brachycolus (see Diuraphis noxia)	on rice effects of sowing date on 892
Heliothis zea	NRDC 143 (see Permethrin)	in Asia 900
effects on fatty acids of 1131	NRDC 149 (see Cypermethrin)	in Indonesia 3415
not affecting amino acids 1131 Nosema kovacevici, in, Euproctis similis, in	NRDC 156 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-	in Kerala 914 in Philippines 2372
West Germany 1104	dimethyl-, cyano(3-	in Tamil Nadu 3393
Nosema locustae	phenoxyphenyl)methyl ester, (1 <i>R-cis</i>)-)	Nymphula foedalis
against Aeropedellus clavatus, in pastures 929	NRDC 161 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-	in India 2254 light responses in 2254
Camnula pellucida, in pastures 929	dimethyl-, cyano(3-	Nymphula responsalis
Melanoplus spp., in pastures 929	phenoxyphenyl)methyl ester, [1R-	biology of 858
in, Melanoplus sanguinipes, interactions with malathion of 237	$[1\alpha(S^*), \bar{3}\alpha]]$ -) nubigens, Mimosestes	control of, insecticides for 858 descriptions of 858
Nosema mesnili	nubila, Sexava	in India 858
in	nubilalis, Ostrinia	on Azolla anabaena, in Orissa 858
Apanteles glomeratus, transmission of 5841	nubilus, Dacus nubilus, Neurocolpus	Nysius in Hawaii 4614
Pieris brassicae	nubilus, Scymnus	on grapevine, in Pennsylvania 5059
in Sweden 5841	nucivora, Tinea (see T. fictrix)	Nysius caledoniae
pathogenicity of 5862 Nosema necatrix (see Vairimorpha necatrix)	Nucleic acids in Bombyx mori, effects of viruses on	in USA (Hawaii) 4614 on Compositae, in Hawaii 4614
Nosema operophtherae	metabolism of 5432	Nysius cymoides, in Egypt 4358
sp. nov., description of 546	in Bombyx mori mid-gut, developmental	Nysius vinitor
in, Operophtera brumata, in West Germany 546	changes in 1204 in <i>Dysdercus cingulatus</i> , effects of	control of, biological 5952 in Australia 2100, 5952
Nosema pyraustae, in, Ostrinia nubilalis, in	antibiotics on 3190	on sunflower, damage caused by 2100
Nebraska 306	in insect viruses 4692	Nystatin, in Galleria mellonella, effects on
Nosema whitei	Nucleotidyltransferase, ribonucleate, in Manduca sexta larval fat-body, properties	gut flora of 5850 Nythobia (see Diadegma)
Tribolium castaneum, infectivity of	of 1789	Oak (see Quercus)
1631	nucum, Curculio	Oak, chestnut (see Quercus prinus)
T. confusum, effects of 1618 T. destructor, effects of 1618	Nudaurelia cytherea (see Imbrasia cytherea) nudus, Saniosulus	Oak, Mongolian (see Quercus mongolica) Oak, pin (see Quercus palustris)
spores of, preserving of 1631	numerata, Andaspis	Oak, red (see Quercus rubra)
Nosodendron californicum	numidicus, Dolycoris	Oak, scarlet (see Quercus coccinea)
biology of 581 in USA 581	Nupserha nitidior atripennis in India 6516	Oak, white (see Quercus alba) Oat blue dwarf virus
on Abies grandis, in Oregon 581	on soyabean, varietal preferences of 6516	ill
on Pseudotsuga menziesii, in Oregon 581	Nupserha vexator, on Xanthium	Macrosteles fascifrons
notabilis, Isotoma notandus, Calliephialtes	strumarium, and biological control using, in Queensland 5498	not pathogenic 5835 transmission of 5835
notata, Melanophila	Nut crops	Oat fields
notata, Semiadalia	arthropod pests of, in Tasmania 5416	Coccinellidae in
notata, Thaumatomyia notativentris, Acerophagus	pest control on, pesticides for 2629, 2630, 2631	in Ontario 2635 population density of 1918
notescens, Diomus	Nut trees	parasitic insects in
Nothofagus, Aenetus virescens on, in New	arthropod pests of 2942	effects of tillage on 873
Zealand 4104 Nothofagus dombeyi	pest control on 2942 pest management on, book 2932	in Kazakhstan 3376 predatory insects in, in Kazakhstan 33
Holopterus chilensis on, in Chile 1073	Psylloidea on, in Turkey 1310	Oat flakes, in Tenebrio molitor diet, effect
Opostega spp. on, in Chile 1074	Nutmeg (Myristica fragrans)	on trehalase of 2686
Nothofagus obliqua, Cheloderus childreni on, in Chile 1073	Leptocorisa acuta on, in Kerala 1366 Nutmeg (stored nuts)	Oat sterile dwarf virus, in, Javesella pellucida, transmission of 3881
Nothofagus solandri, mortality of 5778	Cryptolestes klapperichi in, in Sri Lanka	Oatmeal
notialis, Aphytis	1106	mite pests of, in Irish Republic 5926
Notobitus, in Arunachal Pradesh 1839 Notobitus meleagris	C. pusillus in, in Sri Lanka 1106 Nuts (stored)	predatory mites in, in Irish Republic 5926
distribution of 796	arthropod pests of 2942	

Dats (Avena sativa)	obscura, Silpha	3,13-Octadecadien-1-ol contd.
Aphididae on	obscurella, Madurasia	acetate, (3E,13Z)- contd.
damage caused by 2876 in Chile 4174	obscurus, Anaphothrips	Synanthedon pictipes responses to
in South Africa 6360	obscurus, Hylastinus obscurus, Pseudococcus	6262 with (3E,13Z)-3,13-octadecadien-1-ol,
Aphidoidea on, in Kazakhstan 3376	obscurus, Rhabdoscelus	attractant for, Synanthedon
barley yellow dwarf virus in	obsoletus, Acanthoscelides	bibionipennis 6212
damage caused by 5531	obtectus, Acanthoscelides	with $(3Z, 13Z)$ -3,13-octadecadien-1-ol,
resistance to, screening for 6154 cereal chlorotic mottle virus in, infectivity	obtusa, Melanagromyza	and (3Z,13Z)-3,13-octadecadienyl
of 867	Obtusiclava oryzae hyperparasitising, Orseolia oryzae, in	acetate, attractant for, Podosesia
Cnephasia pumicana on, in France 4502	Thailand 2911	aureocincta 6212 with (3Z,13Z)-3,13-octadecadienyl
cocksfoot mottle virus in, infectivity of	in Thailand 2911	acetate, Synanthedon pictipes
5518	parasitised by, Neanastatus grallarius, in	responses to 6262
Cyrtacanthacris guttulosa on, in New South Wales 822	Thailand 2911	acetate, (3Z,13E)-, laboratory synthesis of
isofenchlorphos in, toxicity of 6349	parasitising	4170
Macrosteles sexnotatus on, in England	Orseolia oryzae, in Thailand 2911 Platygaster oryzae, in Thailand 2911	acetate, (3Z,13Z)- attractant for
5304	obvelatus, Acanthoscelides	Conopia myopaeformis 3806
Metopolophium dirhodum on, comparative composition of 874	occidentalis, Arthrocnodax	Synanthedon exitiosa 3485
Noctuidae on, in Western Australia 6356	occidentalis, Frankliniella	laboratory synthesis of 6058
Oscinella frit on	occidentalis, Metaseiulus (see	mating disrupter for, Synanthedon
attraction of 303	Typhlodromus occidentalis)	pictipes 6237
damage caused by 1369 effects of cover crops on 3883	occidentalis, Pogonomyrmex occidentalis, Polybia	Synanthedon pictipes responses to 6262
forecasting infestations of 5963	occidentalis, Trinervitermes	with (3Z,13Z)-3,13-octadecadien-1-ol,
in Belorussia 3361	occidentalis, Typhlodromus (Metaseiulus)	and (3E,13Z)-3,13-octadecadienyl
in Scotland 4175	occipitalis, Sericothrips	acetate, attractant for, Podosesia
in UK 6350 oviposition by 3801	occultus, Eurois ocellana, Spilonota	aureocincta 6212
varietal preferences of 5530	ocellaris, Bradysia	with (3E,13Z)-3,13-octadecadienyl
Oulema spp. on, in USSR 1386	ocellaris, Errastunus	acetate, Synanthedon pictipes responses to 6262
O. lichenis on, not feeding 2881	Ochratoxin B, Tribolium confusum not	Octadecanoic acid
O. melanopus on	responding to 6179	in Exeristes roborator, effects of dietary
distribution pattern of 6139 effects of discing on 873	ochripes, Leptocera (Limosina) ochripes, Limosina (see Leptocera ochripes)	glucose on 3255
effects of ploughing on 873	ochrogaster, Euxoa	hexyl ester, Colias philodice sex-
feeding by 2881	ochroloma, Microtheca	pheromone component 5330
in Maryland 4504	Ochroma pyramidale, Formicidae on, nectar	9,12,15-Octadecatrienoic acid (9Z,12Z,15Z)-
in North Carolina 4504 in Ontario 6348	production and 4972 Ochropleura herculea	diet component for, Homona coffearia
in Wisconsin 6364	control of, insecticides for 3377	1225
resistance to 865	in India 3377	in Homona coffearia diet, dependence
O. rufocyanea on, feeding by 2881	on maize, in Bihar 3377	of emergence on 2192
O. septentrionis on, not feeding 2881 pest control on	ochropus, Arge Ochsenheimeria vacculella	methyl ester, diet component for, Dermestidae 178
biological 5953	in Canada 5045	13-Octadecenal
thresholds for 3361, 5963	on Poa, in Ontario 5045	(Z)-
Rhopalosiphum padi on, damage caused	β-Ocimene (see 1,3,6-Octatriene, 3,7-	mating disrupter for, Chrysoteuchia
by 5531 Schistocerca gregaria on, development of	dimethyl-) Ocimum basilicum, Hercinothrips femoralis	topiaria 2410
2319	on, rearing of 1320	with (Z)-11-hexadecenal, attractant for,
Schizaphis graminum on, feeding by	Ocimum gratissimum, Diacrisia obliqua on,	Chilo suppressalis 894 9-Octadecenoic acid
4503 Sinha flavo on domana asserd by 2272	not developing 1820	(Z)-
Sipha flava on, damage caused by 3372 Dats (stored grain)	Ocimum sanctum, insecticidal activity of extracts of 859	in Ceratitis capitata, stereospecific
Acaris farris in, varietal preferences of	Ocneria dispar (see Lymantria dispar)	distribution in triglycerides of 534
3135	ocneriae, Apanteles	in Ceratitis capitata diet, effects on
Lepidoglyphus destructor in, varietal	Octacosane, 4-methyl-, in Lasioderma	lipogenic enzymes of 6051 in Exeristes roborator, effects of dietary
preferences of 3135 Sitotroga cerealella in, development of	serricorne cuticle 5331 9,12-Octadecadienoic acid	glucose on 3255
6653	(9Z,12Z)-	repellent for
Tyrophagus putrescentiae in, varietal	diet component for, Homona coffearia	Gnathotrichus spp., on Pseudotsuga
preferences of 3135	in Corotific conitate diet effects on	6597 Xyloterus lineatus, on Pseudotsuga
beliscata, Thera Oberea brevis	in Ceratitis capitata diet, effects on lipogenic enzymes of 6051	6597
food-plants of 2484	in Homona coffearia diet, dependence	2,6-Octadienal, 3,7-dimethyl-
in India 2484, 5106	of emergence on 2192	in Apis mellifera, not affecting
on Cajanus cajan, in Madhya Pradesh 2484	in <i>Icerya purchasi</i> , biosynthesis of 4753	Ascosphaera apis 3683 in Ascosphaera apis, inhibiting growth
on soyabean	methyl ester, diet component for,	3683
damage caused by 5106	Dermestidae 178	(E)-, in Artogeia melete scent scales
varietal preferences of 5106	3,13-Octadecadien-1-ol	2695
on Vigna mungo, in Madhya Pradesh	(3E,13Z)-, with (3E,13Z)-3,13- octadecadienyl acetate, attractant for,	(Z)-, in Artogeia melete scent scales 2695
2484 on <i>Vigna radiata</i> , in Madhya Pradesh	Synanthedon bibionipennis 6212	1,6-Octadiene, 7-methyl-3-methylene-
2484	(3Z,13Z)-	Anthonomus grandis responses to 2203
berthuri, Mericserica	attractant for	Dendroctonus brevicomis responses to,
besi, Microtermes	Albuna fraxini 6212 Synanthedon sequoiae 6212	inhibited by <i>Ips paraconfusus</i> infested logs 5327
besus, Odontotermes besus, Plocaederus	with (3E,13Z)-3,13-octadecadienyl	in Dendroctonus brevicomis, rate of
bfuscata, Lymantria	acetate, and (3Z,13Z)-3,13-	release of 3064
bliqua, Diacrisia	octadecadienyl acetate, attractant	in <i>Ips cembrae</i> , stimulating production of
obliquana, Ctenopseustis	for, Podosesia aureocincta 6212 acetate, (3E,13E)-, laboratory synthesis of	aggregation pheromone 4238 in <i>Ips paraconfusus</i>
obliterata, Aphidecta oblonga, Macrosiphoniella	4170	conversion to pheromones of 5775
blongopunctatus, Pterostichus	acetate, (3E,13Z)-	stimulating production of aggregation
blongus, Misumenops	attractant for, Synanthedon pictipes	pheromone 2199
blongus, Symydobius	3485 laboratory synthesis of 4170, 6058	in Niesthrea louisianica exocrine secretions 4236
bovatus, Kleidocerys bscura, Melanaspis	mating disrupter for, Synanthedon	in Papilio protenor larval osmeterial
bscura, Scotinophara	pictipes 6237	secretion 4234

1,6-Octadiene, 7-methyl-3-methylene- contd. 7-Octen-4-ol, 2-methyl-6-methylene- contd. Odontotermes smeathmani with 1,5-dimethyl-6,8in Ips paraconfusus contd. in Nigeria 4524 dioxabicyclo[3.2.1]octane, and exo-7synthesis of 2199 in grassland, litter removal by 4524 ethyl-5-methyl-6,8-(R)-, Ips paraconfusus aggregation not Odynerus, in Greece 4737 dioxabicyclo[3.2.1]octane, attractant for, Dendroctonus brevicomis 2580 2,6-Octadienoic acid, 3,7-dimethyl-, in disrupted by 555 Oebalus insularis octo, Amya (Hattia)
octo, Ilattia (see Amyna octo)
octofasciatus, Sphingonotus
octomaculata, Harmonia
Octopamine (a-(aminomethyl)-4hydroxybenzenemethanol) control of, insecticides for 2299 in Mexico 2299 on rice, damage caused by 2299
oebalus, Platygaster (Prosactogaster)
Oebalus poecilus
in Brazil 6410 Ascosphaera apis, inhibiting growth 3683 1,5-Octadien-3-ol (E)on rice, in Brazil 6410 oebalus, Prosactogaster (see Platygaster oebalus) attractant for, Tyrophagus putrescentiae in Locusta migratoria
during moulting and adult development
2215 2153 in Trichothecium roseum 2153 (Z)-, in Trichothecium roseum 2153 1,6-Octadien-3-ol, 3,7-dimethyl-, in Dysdercus intermedius scent 2224 2,6-Octadien-1-ol, 3,7-dimethyl-2215
localisation of 4791
receptors for 3333
octospinosus, Acromyrmex
Octosporea muscaedomesticae
in, Phormia regina, infectivity of 1631
spores of, preserving of 1631
Octostruma jheringi
in Brazil 190 Oebalus pugnax, on rice, stylet sheaths as indicators of feeding by 326 mdicators of feeding by 326

Oecanthus nigricornis

biology of 938
in Canada 938
on raspberry, in Ontario
rearing of, techniques for 938
Oecophoridae (E)in Anthonomus grandis, incorporation into sex pheromone of 740 in Artogeia melete scent scales 2695 on Quercus, in Missouri 6224
rearing of, diets for 1850
Oecophylla, preying on, Axiagastus cambelli
and biological control using, in Solomon
Islands 4179 in Ascosphaera apis, inhibiting growth preying on, Armitermes spp., in Brazil 3683 in Oecophylla longinoda mandibular-gland secretion 47 Octotoma championi food-plant specificity in 1907 (Z)on Lantana camara, and biological control in Anthonomus grandis, incorporation into sex pheromone of 740 in Artogeia melete scent scales 2695 using, in Australia 1907 Oecophylla longinoda alarm communication in 46, 47, 48 cephalic secretions in, variation in 47 on Lantana hispida, development of 1907 in Oecophylla longinoda mandibularon Lantana montevidensis, not developing in Ghana 2043 in Kenya 4973 1907 in Kenya 4973
in cacao plantations, effects of insecticides on 2043
mandibular glands in, components of secretion of 46
territories of 4973
venom of 48

Oecophylla smaragdina
in India 281, 1359
in Solomon Islands 4179
on cinnamon, in India 281 gland secretion 47 formate, (Z)-, Tyrophagus putrescentiae alarm pheromone 5325 on Lantana trifolia, development of 1907 Octotoma scabripennis, on Lantana camara, and biological control using, in Queensland 5498 2,7-Octadien-1-ol, 3,7-dimethyl-2,7-Octadien-1-ol, 3,7-dimethylpropanoate, (Z)attractant for, Quadraspidiotus
perniciosus 5276
laboratory synthesis of 5277
with 7-methyl-3-methylene-7-octenyl
propanoate, Quadraspidiotus
perniciosus sex pheromone 5276
2,7-Octadien-4-ol, 2-methyl-6-methylenein Ips cembrae males, myrcene stimulating
production of 4238
in Ins page conflicts Queensland 5498
oculata, Chrysopa
oculiperda, Resseliella (Thomasiniana)
oculiperda, Thomasiniana (see Resseliella
oculiperda)
odai, Resseliella
odaiensis, Fiorinia
Odinia meijerei
descriptions of 3095
in UK 3095
preving on Scolutus ecolutus in Englar on cinnamon, in India 281 preying on

Amblypelta cocophaga, and biological control using, in Solomon Islands preying on, Scolytus scolytus, in England 3095 in Ips paraconfusus conversion of myrcene to 5775 receptors for 1728 synthesis of 2199 Axiagastus cambelli, and biological control using, in Solomon Islands Odoiporus longicollis, life-span in, effects of temperature on 409 in *Ips pini*, receptors for 1728 with 2-methyl-3-buten-2-ol, and $(1\alpha,2\beta,5\alpha)$ -4,6,6-Painella simmondsi, in Solomon Islands in rice-fields, effects of insecticides on 4179 (1\alpha,2\beta,5\alpha)-4,6,6trimethylbicyclo[3.1.1]hept-3-en-2-ol,
attractant for, Ips typographus 6589
(R)-, aggregation disrupter for, Ips
paraconfusus 555
Octanoic acid, in Ascosphaera apis,
inhibiting growth 3683
1-Octanol, in Oecophylla longinoda
mandibular-gland secretion 47
3-Octanol, in Decamorium uelense
mandibular gland secretion 4761
3-Octanone, in Tetramorine mandibular
gland secretions 4761
octasema, Nacoleia
1,3,6-Octatriene, 3,7-dimethyl(E)-, in Papilio protenor larval osmeterial
secretion 4234
(Z)-, in Papilio protenor larval osmeterial 6411 tending, Coccidae, in Karnataka preying on, Chironomidae, in South Korea 3965 trail pheromone of, persistence of 2327 ocaleus senegalensis
ecological model of 5903
in Cape Verde 137
in Niger 5903
in Upper Volta 5903
Oedipoda miniata, diapause in 71
Oedipodinae, oviposition in 3331
Oenonia, preving on, Anhis fabae. Korea 3965

Odontomachus, preying on, Cnaphalocrocis medinalis, in Philippines 904

Odontomachus chelifer foraging in 4969
in Paraguay 4969
preying on, Isoptera, in Paraguay 4969

Odontopera bidentata in Finland 3756
in UK 3756
melanism in 3756
edontonty, Currophile Oenopia, preying on, Aphis fabae, in India 2820 Oenopia quadripunctata 2820 Oenotheraceae, Bemisia tabaci on, in Brazil odontoptyx, Cyamophila Odontopus sexpunctatus (see Probergrothius sexpunctatus) oertzeni, Ernobius Offices, Thylodrias contractus in, in Italy 5799 Odontota horni (see Xenochalepus horni) Odontotermes assamensis, in China 500 Odontotermes assmuthi, in India 1896 (Z)-, in Papilio protenor larval osmeterial secretion 4234 Ofunak (see Phosphorothioic acid, O-(1,6-dihydro-6-oxo-1-phenyl-3-pyridazinyl) 2,4,6-Octatrienoic acid, in Aphidoidea Odontotermes distans O, O-diethyl ester) in Nepal 4673 1815 in structural wood, in Nepal 4673

Odontotermes feae
distribution of 846
in India 846, 1896 Agromyza frontella in, on lucerne 4902 Agrotis ipsilon in 2691 2-Octenal in Dysdercus intermedius scent, synthesis of 2224
(E)-, in Niesthrea louisianica exocrine secretions 4236
2-Octenal, 2-butyl-, in Oecophylla longinoda mandibular-gland secretion 46, 47
7-Octen-1-ol, 7-methyl-3-methylene-Anthonomus signatus in, on strawberry 366 Odontotermes gurdaspurensis distribution of 846 in India 846, 1896 Odontotermes obesus distribution of 846 apple in, arthropod pests of 1976
Asclepias syriaca in, insect enemies of 272 Ataenius spp. in 4530
A. spretulus in in sports turf 6208 propanoate propanoate
attractant for, Quadraspidiotus
perniciosus 5276
laboratory synthesis of 5277
with (Z)-3,7-dimethyl-2,7-octadienyl
propanoate, Quadraspidiotus
perniciosus sex pheromone 5276
7-Octen-4-ol, 2-methyl-6-methyleneaggregation disrupter for, Ips pini
in Ips cembrae males, myrcene stimulating
production of 4238 distribution of 846 fungi in, in Delhi 5485 humidity as affecting 6 in India 846, 5485 in Pakistan 1895 swarming in 1895 wood preferences in 66 natural enemies of 6204

Baris lepidii in, on lucerne 6435

Cyclocephala spp. in, natural enemies of 6204 6660 Dectes sayi in, on Ambrosia 854
Diabrotica spp. in, on maize 554
D. longicornis in, on maize 312 6660 Odontotermes pauperans in Nigeria 4524 in grassland, litter removal by 4524 D. virgifera in, on maize 312 Empoasca fabae in, on potato 5689 production of 4238 Odontotermes redemanni distribution of 846 in Ips paraconfusus Enaphalodes rufulus in, on Quercus conversion of myrcene to 5775 in India 846

ubject Index		1057
Phio contd.	Oil emulsions contd.	Oilseed crops
Eurosta spp. in, on Solidago 6340	with DNOC, against, Dysaphis	arthropod pests of
Hylurgopinus rufipes in 6207 Liriomyza sativae in, on glasshouse crops	plantaginea, on apple 5606	in Canada 2792
229	with endosulfan, against, <i>Dendroctonus</i> micans, on <i>Picea</i> 1604	in New South Wales 2161 in West Germany 2162
Lygus lineolaris in, on strawberry 366	with ethion	pest control on, biological 5952
Macrodactylus subspinosus in, on	in parasitic insects, toxicity of 5631	pests of, in Kerala 1902
grapevine 3457	in predatory insects, toxicity of 5631	Oinophila
Megacyllene robiniae in, on Robinia 1102	with ethyl-DDD, against, <i>Psylla pyricola</i> , on pear 4888	in North America 15 taxonomy of 15
Monocesta coryli in 6612	with fenitrothion, against, Bostrichidae, on	okadai, Contarinia
Ostrinia nubilalis in, on potato 6537	grapevine 942	Okanagana rimosa
Otiorhynchus sulcatus in 505, 1201	with lindane	auditory responses in 4250 song of 4250
Oulema melanopus in, on oats 873	against	okanagensis, Amblyseius
Panonychus ulmi in, on apple 6238 Paranthrene pellucida in, on Quercus	Dendroctonus micans, on Picea 1604	Oklahoma
3077	Gilletteella coweni, on Pseudotsuga	Acyrthosiphon kondoi in, on lucerne
Polistes fuscatus in 6211	3072	4537 A. pisum in
Popillia japonica in 6205	with malathion	on lucerne 3343
natural enemies of 6204	against	on Vicia 3343
on soyabean 6203 Scolytus multistriatus in 521, 5152, 6207	Asterolecanium pustulans, on fig 4400	Conotrachelus pecanae in, on pecan
Stelidota geminata in	Hemiberlesia lataniae, on fig 4400	6456 Curculio caryae in
natural enemies of 365	Spodoptera littoralis, on Citrus 977	natural enemies of 2782
on strawberry 6236	Tetranychus urticae, on Citrus 977	on pecan 1970
Tetranychus urticae in, on glasshouse	with methidathion	Elasmopalpus lignosellus in, on groundnut
crops 229 Thyridopteryx ephemeraeformis in 789	against Planococcus citri, on Citrus 5636	3528 Eucosma womonana in, on Helianthus
Trialeurodes vaporariorum in, on	Saissetia oleae, on olive 986	2034
glasshouse crops 229	with parathion	Frankliniella fusca in 1625
Viteus vitifoliae in, on grapevine 1965 wood-boring insects in, on Quercus 1105	against	Hemileuca oliviae in, natural enemies of 2409
Didaematophorus monodactylus	Aphis pomi, on apple 6467	Hypera postica in, on lucerne 6436
attractants for 5275	Asterolecanium pustulans, on fig 4400	Melanoplus spp. in 820
in USA 5275	Brevipalpus californicus, on Citrus	Nematus abbottii in, on Robinia 1080
on Calystegia sepium, and biological control using, in Virginia 3353	978	Periclista sulfurana in, on Quercus 6611 Phenacoccus solani in, on potato 2599
rearing of, cost of 3353	Gilletteella coweni, on Pseudotsuga	Psallus seriatus in, natural enemies of
Dides scutellata	3072	1047
biology of 945 in India 945	Hemiberlesia lataniae, on fig 4400 Planococcus citri, on Citrus 5636	Rhagium inquisitor in, on Pinus 5193 Surattha indentella in 1943
on grapevine, in Himachal Pradesh 945	Spodoptera littoralis, on Citrus 977	Tetyra bipunctata in, on Pinus 1079
Didium, control of, fungicides for 5582	Tetranychus urticae, on Citrus 977	Therioaphis trifolii in, on lucerne 3343
Dil emulsions	with parathion-methyl	Uroleucon ambrosiae in, on Ambrosia
against aphid vectors of viruses 5089	against Conopia myopaeformis, on apple	3343 U. rudbeckiae in, on Rudbeckia 1062
aphids, on tobacco 3560	6466	Okra (Hibiscus esculentus)
Aphis gossypii, on squash 1503	Enarmonia formosana, on apple	Amrasca biguttula on
Asterolecanium pustulans, on fig 4400	6466	assessing infestations of 1494 in Orissa 413
Coccus viridis, on mandarin 5635 Epidiaspis leperii, on plum 5612	with phosalone, against, <i>Psylla pyricola</i> , on pear 4888	A. devastans on
Hemiberlesia lataniae, on fig 4400	with pirimiphos-methyl, against,	in Karnataka 1492
H. rapax, on Actinidia chinensis 5883	Bostrichidae, on grapevine 942	in Maharashtra 5649
Myzus persicae, on Capsicum 5709 Pseudococcus comstocki, in citrus-	with triazophos, against, Dendroctonus micans, on Picea 1604	in Rajasthan 4067 in Uttar Pradesh 4017
picking bins 5619	Oil palm (Elaeis guineensis)	Aphis gossypii on, in Karnataka 1492
Saissetia oleae, on olive 986, 6493	Coelaenomenodera elaeidis on	Bemisia tabaci on, viruses transmitted by
Spodoptera littoralis, on Citrus 976,	in Ghana 362	4341 Dyadarana ainaylatus on dayalanmant af
977 Tetranychus urticae, on Citrus 976,	in Ivory Coast 4544 Delphacidae on, in Ivory Coast 6445	Dysdercus cingulatus on, development of 4597
977	insect pests of, in Solomon Islands 4179	Earias spp. on
in Cales noacki, not toxic 3493	Mahasena corbetti on, in Solomon Islands	in Karnataka 1492
in insect virus formulations 6620 in mandarin, toxicity of 5635	3698 pest control on	in Uttar Pradesh 4017 E. insulana on
in Prospaltella lahorensis, toxicity of	cultural measures for 1959	in Maharashtra 5649
3491	injecting of systemic insecticides for	varietal preferences of 2464
with amitraz, against, Psylla pyricola, on	1438	E. vittella on in Karnataka 2815
pear 4888 with azinphos-methyl	insecticide injections for 4543 integrated 322	in Maharashtra 5649
against, Saissetia oleae, on olive 986	Phytomonas spp. in, in Ecuador 1961	varietal preferences of 2464
in parasitic insects, toxicity of 5631	pollination of, by insects 1437, 6692	Eucelatoria spp. on, attraction of 2540
in predatory insects, toxicity of 5631 with carbaryl, against, Saissetia oleae, on	Pythium spp. in, in Ivory Coast 2937 Recilia mica on, in Ivory Coast 2937,	Graphognathus peregrinus on, oviposition by 3760
olive 986	6445	Heliothis armigera on, in Karnataka
with carbophenothion	Rhizoctonia spp. in, in Ivory Coast 2937	1493
in parasitic insects, toxicity of 5631	Tetranychus piercei on, in West Malaysia	insect pests of, in Tamil Nadu 414
in predatory insects, toxicity of 5631 with chlorfenvinphos, against, Saissetia	705 Oil-palm blast	Pectinophora gossypiella on, in St. Vincent 5121
oleae, on olive 986	causal agent	pest control on, insecticides for 414
with chlorobenzilate	control of, vector control for 6445	Podagrica decolorata on, in Ivory Coast
in parasitic insects, toxicity of 5631	in, Recilia mica, transmission of 6445 Oil-palm marchitez sorpresiva, causal agent,	5092 Saissetia oleae on, in Turkey 6493
in predatory insects, toxicity of 5631 with decamethrin, against, Saissetia oleae,	Phytomonas implicated as 1961	Tetranychus cinnabarinus on, in Haryana
on olive 986	Oil palm (stored kernels)	267
with dimethoate	insect pests of, in Nigeria 6645	Okra mosaic virus
against Aonidiella aurantii, on Citrus 4402	pest control in, insecticides for 1686 Oils	in Podagrica decolorata, transmission of
Asterolecanium pustulans, on fig	against, Batocera spp., on mulberry 378	5092
4400	in Neotermes bosei diet, digestion of	Zonocerus variegatus, transmission of
Hemiberlesia lataniae, on fig 4400	6329 Oilseed cakes, Plodia interpunctella in, in	5092 Olea europaea (see Olive)
with dinoseb, against, Saissetia oleae, on olive 6493	USSR 3128	oleae, Dacus

oleae, Dasineura	Oligonychus ilicis contd.	Olive contd.
oleae, Filippia (Philippia) oleae, Lecanium (see Saissetia oleae)	seasonal abundance of 4917 Oligonychus indicus	Dacus oleae on contd. damage caused by, compensation for
oleae, Philippia (see Filippia oleae)	in China 4866	6496
oleae, Prays	in India 267, 3975	in Crete 1991
oleae, Saissetia (Lecanium)	on lucerne, in Haryana 267	in France 2457
Oleander (see Nerium oleander)	on maize, in Haryana 267 on Setaria viridis, in China 4866	in Greece 210, 1992, 1993, 1994, 24 5639, 6490, 6492
Oleander, sweet (see Nerium odorum) olearius, Eupalopsellus	on sorghum	in Italy 1475, 1476, 1477
Oleic acid (see 9-Octadecenoic acid, (Z)-)	in Haryana 267	in Libya 5642
oleiperda, Hylesinus	in Karnataka 3975	in Sardinia 1473
oleisuga, Clinodiplosis (Thomasiniana) oleisuga, Thomasiniana (see Clinodiplosis	on sugar-cane, in Haryana 267	in Turkey 1311 in Yugoslavia 987
oleisuga)	preyed on by, Tapinoma melanocephalum, in Karnataka 3975	oviposition by 1474
oleivora, Phyllocoptruta	Oligonychus jiangxiensis	Dasineura oleae on, damage caused by
Oleo-Wofatox (see Parathion-methyl, with oil emulsion)	sp. nov., description of 4866	5084 Hemiberlesia lataniae on, in Chile 457
oleracea, Altica	in China 4866	H. rapax on, in Chile 4570
oleracea, Lacanobia (Mamestra)	on Cunninghamia lanceolata, in China 4866	insect pests of, in Cyprus 1761
oleracea, Mamestra (see Lacanobia oleracea)	Oligonychus mangiferus	Otiorhynchus cribricollis on, in Italy ! Parlatoria oleae on
oleraceum, Eurydema	food-plants of 935	in California 406
Olethreutes clavana	in India 935, 4295	in Greece 3799
in USA 1187 on hazel, in New Jersey 1187	on blackberry, in Madhya Pradesh 4295 on mango, in Madhya Pradesh 4295	pest control on in Greece 6490
taxonomy of	on Syzygium cumini, in Madhya Pradesh	integrated 3825
lectotype for 1187	4295	thresholds for 6496
Olethreutes mysteriana misidentified as, in North America 1187	Oligonychus pratensis in China 4866	pest management on, analysis of 406 Pollinia pollini on, in Crete 6494
Olethreutes concinnana	in USA 308, 920	Prays oleae on
on blackberry, in North America 1187	on maize, effects of irrigation on 308	forecasting infestations of 405
taxonomy of, Olethreutes foedana as synonym of 1187	on Pennisetum alopecuroides, in China 4866	in France 1779, 2457 in Greece 6490
Olethreutes foedana	on Setaria viridis, in China 4866	in Spain 984
taxonomy of	on sorghum, in Texas 920	Saissetia oleae on
Olethreutes furfuranum misidentified as 1187	preyed on by, Amblyseius scyphus, in Texas 920	damage caused by 3506 in California 406
synonym of O. concinnana 1187	Oligonychus sacchari	in Chile 4174
Olethreutes furfuranum	in India 4295	in France 2457
on blackberry, in North America 1187 taxonomy of, misidentified as O. foedana	on bamboo, in Madhya Pradesh 4295	in Greece 5640, 6490 in Italy 2455
1187	Oligonychus ununguis development in 719	in Libya 3508, 5083
Olethreutes mysteriana	on Castanea crenata, development of 719	in Sicily 986
sp. nov., description of 1187 in Canada 1187	spinning behaviour in 1261	in Turkey 6493
in USA 1187	Oligosita in rice-fields, in Thailand 2370	Olive groves Chrysopa carnea in, in France 5085
on Ulmus americana 1187	parasitising	Eupalopsellus olearius in, in Egypt 18
Olethreutes nigranum	Nephotettix nigropictus, in Karnataka 886	parasitic insects in
in Canada 1187 on Acer saccharum, in Ontario 1187	Nilaparvata lugens	effects of bait sprays on 204 effects of insecticides on 205
on Carya, in Ontario 1187	in Karnataka 886	effects of road dust on 4008
Olethreutinae	in Orissa 327	predatory insects in, effects of insecticit on 984
in British Isles, book 3789 sex pheromones of 1731	Sogatella furcifera, in Thailand 911 Oligosita yasumatsui	Olive oil, in Schistocerca gregaria, effects
Oliarus vicarius	sp. nov., description of 2370	3330
in USA 515	in Thailand 2370	oliviae, Hemileuca
in Solenopsis invicta mounds, in Georgia (USA) 515	in rice-fields, in Thailand 2370 Oligota	olivieri, Polyphylla olivina, Euphilippia (see Filippia follicula
oligadenus, Anthoseius	biology of 6545	Olla v-nigrum
Oligochaeta, parasitised by, Johnsoniini	in Ethiopian region 2766	in Mexico 1647
4726 Oligochrysa lutea	preying on, Tetranychidae 6545 Oligota minuta	seasonal abundance of 1647 ombrodelta, Cryptophlebia
in Australia 3510	preying on, Mononychellus tanajoa 2654	Omethoate (O,O-dimethyl S-[2-
preying on, <i>Planococcus citri</i> , in Queensland 3510	rearing of 2654 Oligotrophus mangiferae	(methylamino)-2-oxoethyl]
Oligomerus ptilinoides	in India 2174	phosphorothioate) against
biology of 6661	on mango, in Bihar 2174	Dendroctonus micans, on Picea 160
distribution of 6661 in wood, damage caused by 6661	parasitised by, Gastrancistrus muneswari, in Bihar 2174	Dolichotetranychus floridanus, on
Oligoneura basidactyla, taxonomy of,	olitoria, Coelidia (see Jikradia olitoria)	pineapple 2983 Inopus rubriceps, in pastures 5865
transferred to Manoneura 2177	olitoria, Jikradia (Coelidia)	Irenimus compressus, on black curra
Oligoneura Bigot 2177 Oligoneura Davis, taxonomy of, Manoneura	olivaceoniger, Agrilus olivaceus, Dagbertus	6720 Planococcus citri, on Citrus 3800
proposed as replacement for 2177	olivaceus, Polistes	Polyphagotarsonemus latus, on
Oligonychus	Olive (Olea europaea)	Phaseolus vulgaris 1008
control of, acaricides for 363 on cassava, in Uganda 6545	Aonidomytilus espinosai on, in Chile 4444	Sminthurus viridis, in pastures 5868 Tetranychidae, on bean 1505
on date palm, in Egypt 363	arthropod pests of, in Yugoslavia 1463	Tetranychus urticae 1040
on Quercus, in Texas 3061	Aspidiotus nerii on	in citrus groves, non-target effects of
on rice, varietal preferences of 3898 on sugar-cane, in Haryana 267	damage caused by 6491 effects of road dust on 4008	3800 in fruit trees, translocation of 3194
preyed on by	in Chile 4570	in hop, translocation of 3194
Stethorus fijiensis 2840	in Crete 6495	resistance to, in, Therioaphis trifolii, in
S. gutierrezi, in New Hebrides 2840 Oligonychus gossypii, mating in 779	Ceratitis capitata on, oviposition by 1474 Cicada mordoganensis on, in Turkey	New South Wales 4541 omissa, Cerna
Oligonychus hondoensis, Entomophthora	1184	Omite (see Propargite)
floridana in 5243	Clinodiplosis oleisuga on, in Jordan 5641	Ommin, in Carausius morosus, synthesis
Oligonychus ilicis in USA 4917	Coccidae on	Orano (see Carum contigum)
on Ilex crenata, effects of insecticides on	in Egypt 1894 in Mediterranean region 3506	Ommo (see Carum copticum) Ommochromes, in Carausius morosus,
4917	Cyclophora nanaria on, in Chile 4406	synthesis of 3738
predators of, effects of insecticides on	Dacus oleae on	Omphale coilus

mphale coilus contd.	Onion extracts, against, Beauveria bassiana	Onthophagus gazellus
parasitising, Dasineura brassicae, in	1360	in Solomon Islands, introductions of
Poland 2996	Onion fields, ecosystems in, model 6136 Onion oil	3698
mus, compound eyes in 1227 ncideres, in Brazil and adjacent countries	attractant for, Delia antiqua 687	in cattle dung, for fly control 2344 Onthophagus ramosellus
2933	in Tyrophagus putrescentiae diet, effects	in Bangladesh 4403
ncometopia nigricans	on development of 6172	in dung, in Bangladesh 4403
grapevine Pierce's disease, causal agent in,	Oniscoidea, on cucumber, in UK 6508	Onthophagus sagittarius, in Solomon
in Florida 6452 in USA 6452	Onitini, in Ethiopian region 3727 Onitis, in Ethiopian region, book 3727	Islands, introductions of 3698 Onthophagus taurus, in Tunisia 4852
on grapevine, in Florida 6452	Onobrychis	Onthophagus triceratops
ncometopia orbona	insect pests of, in France 3002	in Bangladesh 4403
in USA 2448	pest control on, insecticides for 3002	in dung, in Bangladesh 4403
on peach, in Florida 2448 seasonal abundance of 2448	Onobrychis sativa (see Sainfoin)	onukii, Empoasca Onychiurus armatus, aggregation pheromone
ncopeltus cingulifer cingulifer,	Onobrychis viciifolia (see Sainfoin) Ontario	in 3745
metamorphosis in, size-dependent timing	Acyrthosiphon pisum in, on lucerne	Ooencyrtus
of 1203 ncopeltus fasciatus	4535, 4536	distribution of 3369 hosts of 3369
aflatoxins in, toxicity of, sex differences in	Agromyza frontella in, natural enemies of	taxonomy of, review 3369
6678	2927	Ooencyrtus clisiocampae
aggregation pheromone in 4237	Aphodius granarius in, in sports turf 5046	in USA 2568
alarm pheromone in 4237 chromosomes in 6256	Archips cerasivoranus in, natural enemies	parasitising, <i>Malacosoma disstria</i> , in Minnesota 2568
circadian rhythms in 6730	of 5842	Ooencyrtus fecundus, hosts of 3370
coloration in, geographical variation in	Argyresthia thuiella in, on Thuja 2584,	Ooencyrtus kuwanai
4889	5760	dimethoate in, toxicity of 1159
control of, growth regulators for 1166,	Blissus leucopterus in, in lawns 926	disparlure not affecting 523 dispersal of 514
corpora allata in	Carabidae in in apple orchards 957	in Morocco 514, 3068
effects of precocenes on 1231	mites on 136	in USA 523
inactivation by precocenes of 762	Carduus nutans in, Rhinocyllus conicus	lindane in, toxicity of 1159
correcting behaviour in 84 diflubenzuron in, inhibition of chitin	for biological control of 5501	parasitising Lymantria dispar
synthesis by 1164	Choristoneura fumiferana in 1737, 3582	in Morocco 514, 3068
enzymes in 3288	natural enemies of 1594, 6633	in Pennsylvania 523
feeding in, role of watery saliva in 6104	on Abies 6620, 6632 on Picea 6620, 6632	parasitism by, variation in 523
flight activity in, effects of precocenes on 4222	Coleomegilla maculata in, natural enemies	ryania in, toxicity of 1159 Ooencyrtus malayensis
food consumption in, effects of food	of 5471	biology of 404
limitation on 4229	Cydia molesta in, on peach 3486	descriptions of 404
food utilisation in 4230	C. pomonella in, on apple 4553	in Malaysia 404
in Brazil 3288 in USA 4889	Diabrotica longicornis in 2635 Euphorbia cyparissias in, Hyles	in Papua New Guinea 1402 parasitising
life-span in 3288	euphorbiae for biological control of	Leptocorisa oratorius, in Papua New
mating in, rhythm of 1269	6339	Guinea 1402
metamorphosis in, size-dependent timing	forest entomology in 6616	Papilio demoleus, in West Malaysia 404
of 1203 on Asclepias curassavica, in Brazil 3288	Frankliniella fusca in 1625 Harpalus affinis in, natural enemies of	Ooencyrtus nigerrimus, hosts of 3370
Phidippus audax not preying on 247	5467	Ooencyrtus papilionis
precocenes in	Malacosoma disstria in, on Populus 1094	in India 4447
effects of 1716, 2714, 6730	Neodiprion lecontei in, on Pinus 6619	in Pakistan 4447
effects on corpus allatum of 5990 preyed on by, Geocoris pallens 5130	Ochsenheimeria vacculella in, on Poa 5045	parasitising Pyrilla perpusilla
reproduction in, effects of food limitation	Oecanthus nigricornis in, on raspberry	in India 4447
on 4229	938	in Pakistan 4447
reproductive allocation in 4230	Olethreutes nigranum in	Ooencyrtus pityocampae in Italy 3079
nion (Allium cepa) Acrolepiopsis assectella on, in France	on Acer 1187 on Carya 1187	parasitising, Thaumetopoea pityocampa, in
6548	Orgyia antiqua in 6599	Italy 3079
Bactericera tremblayi on, in Turkey 1310	Ostrinia nubilalis in	Overcyrtus telenomicida, hosts of 3370
carbaryl in, residues of 5697	on Capsicum 4053	oophaga, Goniopsita Oospora sajanica
Delia antiqua on damage caused by 4014	on maize 311 Oulema melanopus in	sp. nov., description of 2106
in Finland 1490	natural enemies of 2635	in, Phragmatobia fuliginosa, in Siberia
in France 214	on barley 6348	2106
varietal preferences of 4047 dimethoate in, nectar contamination with	on oats 6348 Panonychus ulmi in, on apple 2954	Ootheca mutabilis development in 6513
3336	Phyllonorycter blancardella in	on Vigna unguiculata, damage caused by
insect pests of	natural enemies of 1979	6513
in Quebec 269	on apple 1979	oviposition in 6513
in UK 6501 in Zimbabwe 6547	Phyllotreta cruciferae in, on crucifers 4019	opacicollis, Melanotus opacipennis, Neoaliturus
Labopidea spp. on 709	Psylla pyricola in, natural enemies of	opaculus, Hylurgopinus
L. allii on 27	5074	opaculus, Pityophthorus
Liriomyza cepae on, in Netherlands	Pulicalvaria thujaella in, on Thuja 2584,	opacus, Amblynotus (see Melanips opacus) opacus, Melanips (Ablynotus)
1026 L. nietzkei on, development of infestation	5760 Pyrrhalta viburni in, on Viburnum 503	opalus, Pachnaeus
with 6546	Schizolachnus piniradiatae in, natural	operculella, Phthorimaea (Gnorimoschema)
malathion in, effects on root-tip cells of	enemies of 5218	operculellum, Gnorimoschema (see
4595	Spodoptera frugiperda in on maize 5265	Phthorimaea operculella) Operophtera, parasitised by, Phobocampe
pest control on 6501, 6547 thresholds for 6546	on tomato 5265	spp., in British Columbia 6327
Petrobia latens on, in UK 1451	Trisetacus laricinae in, on Larix 527	Operophtera boreata (see O. fagata)
Thrips tabaci on	T. strobi in, on Pinus 527	Operophtera bruceata, in Canada 6327
in India 5468	Vespula arenaria in 100 Onthophagus, in Switzerland 1832	Operophtera brumata biology of 1452, 5065
in Rajasthan 5697 varietal preferences of 3540	Onthophagus aenescens	control of 1452
nion (dried bulbs)	in Bangladesh 4403	biological 3610, 5065, 6628
Ephestia cautella in, development of	in dung, in Bangladesh 4403	insecticide-pathogen mixtures for 6628 insecticides for 5065, 6628
Lasioderma serricorne in, development of	Onthophagus bifasciatus in Bangladesh 4403	descriptions of 1452
4344	in dung, in Bangladesh 4403	in Bulgaria 1452, 1454

Operophtera brumata contd.	Opiliones	Oraesia provocans
in Canada 1977, 6327	in apple orchards, in Norway 5605	descriptions of 6443
in Czechoslovakia 6628	preying on, molluscs 4449	in Zimbabwe 6443
in France 5065	Opisthothelae, families in, key to 2816	life history of 6443
in Italy 3610	Opius	Oraesia triobliqua
in Japan 5187	in Hungary 3311	descriptions of 6443
in USSR 2946	parasitising	in Zimbabwe 6443
in West Germany 546	Anastrepha ludens, in Mexico 3356	life history of 6443
in Yugoslavia 5793	Atherigona soccata, in Maharashtra	orana, Adoxophyes
Nosema operophtherae in, in West	921	Orange (Citrus sinensis)
Germany 546	Rhagoletis indifferens, in Oregon 1984	Aceria sheldoni on, in South Africa 50
on Alnus inokumae, damage caused by	taxonomy of 2836	Aleurocanthus woglumi on
5187	Opius concolor	in Florida 3502
on apple	carbaryl in, toxicity of 205	orientation of 1465
in Bulgaria 1454	development in 1992	Aleurothrixus floccosus on, in Spain
in Nova Scotia 1977	dimethoate in, toxicity of 204, 205	3494, 3495, 3496, 3497
on Betula, in circumpolar zone 5150	fenthion in, toxicity of 204	Aonidiella aurantii on
on fruit trees, in USSR 2946	in Greece 1992	in Egypt 4333, 4402
on Populus, in Italy 3610	parasitising, Dacus oleae, in Greece 1992	in South Africa 4568, 5080
on Quercus, in Czechoslovakia 6628	Opius dimidiatus	Bathycoelia thalassina on, in Ghana
on Quercus borealis, in Yugoslavia 5793	host age as affecting 4032	3053
oviposition sites of, adaptive significance	parasitising, Liriomyza sativae 4032	Callipogon barbatum on, in Honduras
of 4931	Opius longicaudatus (see Biosteres	6126
Pleistophora spp. in, in West Germany	longicaudatus)	Ceroplastes floridensis on, in Greece
546	Opius pallipes	5622
population dynamics of 4290	biology of 3807	Coccus hesperidum on, in USSR 2977
seasonal abundance of 1454	in Netherlands 3807	Cryptophlebia leucotreta on
Thelohania cheimatobiae in, in West	parasitising, Liriomyza bryoniae, in	damage caused by 982
Germany 546	Netherlands 3807	in South Africa 5620
Operophtera fagata in USSR 5391	Opius phaseoli in India 6372	Dialeurodes citri on in Afghanistan 2968
parasitised by, Agrypon flaveolatum, in	parasitising, <i>Pseudonapomyza gujaratica</i> ,	in Greece 5632
Lithuania 5391	in Gujarat 6372	Ectomyelois ceratoniae on 706
Ophiomyia centrosematis	Oplismenus, Hysteroneura setariae on, in	Eutetranychus banksi on, in Texas 648
control of, insecticides for 445	Taiwan 3316	Indarbela quadrinotata on, in Punjab
in Taiwan 445	Opogona	2420
on Vigna radiata, resistance to 445	in North America 15	insecticides in, residues of 4160
Ophiomyia phaseoli	taxonomy of 15	Lepidosaphes beckii on, in Egypt 4333
control of	Opogona dimidiatella, on sugar-cane,	Leptoglossus australis on, feeding by
biological 5948	damage caused by 15	2242
cultural 1013	Opogona saccharella, on sugar-cane, damage	Nezara viridula on
insecticides for 430, 431, 445, 1521,	caused by 15	damage caused by 4342
2479, 5671	Opogona sacchari	varietal preferences of 4342
timing of 447	control of, insecticides for 184, 6498	Panonychus citri on
in Australia 5948	in Brazil 6498	damage caused by 6489
in Egypt 1013, 4357	on banana, in Brazil 6498	in California 402
in Indonesia 452	on sugar-cane, damage caused by 15	in Texas 6488
in Malaysia 431, 2479, 5671	Opogona subcervinella (see O. sacchari)	Parlatoria ziziphus on, in Egypt 4333
in Philippines 438, 447, 449, 3952 in Sri Lanka 429	Opossum (see Didelphis marsupialis) Opostega	Phyllocnistis citrella on, in Afghanistan 2968
in Taiwan 445	biology of 1074	Phyllocoptruta citri on, in Egypt 403
in Thailand 430, 451, 3522	on Nothofagus dombeyi, in Chile 1074	P. oleivora on, damage caused by 2970
nematodes in, in Thailand 3522	Oppiella baburini	Planococcus citri on, in Italy 5636
on Phaseolus vulgaris	sp. nov., description of 7	Pseudococcus calceolariae on, in Italy
in West Malaysia 2479	in USSR 7	5633
varietal preferences of 6511	on Abies, in USSR 7	Pterochloroides persicae on 5614
on soyabean, in Egypt 1013	Opsiphanes invirae amplificatus	Rhizopus stolonifer in, in Egypt 4342
on Vigna radiata	in Brazil 2421	Rubroscirus vestus on, in South Africa
in Philippines 438, 447	on palm trees, in Brazil 2421	Scirtothrips aurantii on, in South Africa
in South-East Asia 435	Opsius discessus	5080
in Sri Lanka 429	in USSR 2346	Spiroplasma citri in, in Morocco 1470
in Thailand 430	on Tamarix, in Turkestan 2346	Tortrix capensana on, damage caused by
in West Malaysia 431	Opsius pallasi	2973
resistance to 445, 450, 451, 452	in USSR 2346	triazophos in, residues of 5080
varietal preferences of 449 on Vigna unguiculata	on Tamarix, in Turkestan 2346 Opsius tigripes	Trichoderma spp. in, in Egypt 4342 Orange groves
effects of cultural practices on 3952	in USSR 2346	Cicadellidae in, in Morocco 1470
in West Malaysia 2479, 5671	on Tamarix, in Turkestan 2346	parathion in, residues of 973
parasites of, in Thailand 3522	optabilis, Anagrus	Orange, Mexican (see Choisya dumosa)
predators of, in Thailand 3522	opulenta, Prospaltella	Orange oil
seasonal abundance of 429	Opuntia	insecticidal activity of 3797
Ophion	Diaspis echinocacti on, in South Africa	synergist for
genus-group of, taxonomy of 3844	4988	cypermethrin 3797
taxonomy of, Platophion as synonym of	insect communities on 6341	pirimiphos-methyl 3797
3844	Opuntia aurantiaca	Orange peel, Hemicheyletia bakeri in, in
ophiopsis, Raphidia	Cactoblastis cactorum on, and biological	Pakistan 4982
Ophiostoma ulmi (see Ceratocystis ulmi)	control using, in South Africa 4480	Orange, sour (Citrus aurantium)
Ophonus rufines (see M. maculipennis)	Dactylopius austrinus on	Aleurocanthus woglumi on, developmen
Ophonus rufipes (see Harpalus rufipes)	and biological control using, in South	of 3501
Ophonus similis (see Harpalus similis) Ophraella, on Parthenium hysterophorus, in	Africa 4480	Pardalaspis cosyra on, in Kenya 5644
Mexico 1664	development of 3352 Tucumania tapiacola on, and biological	Saissetia oleae on, in Italy 2455 Orange (stored fruit), Ceratitis capitata in,
Ophraella sexvittata 1664	control using, in South Africa 4480	imported into USSR 5595
Ophrys bombyliflora, Eucera spp. on,	Opuntia ficus-indica	Orange, sweet (see Orange)
stimulation of attempted copulation in	Drosophila melanogaster on, in Tunisia	oratorius, Leptocorisa
4437	4990	orbitalis, Antestiopsis
Ophrys scolopax, Eucera spp. on,	D. simulans on, in Tunisia 4990	orbitella, Coleophora (Kasyfia)
stimulation of attempted copulation in	Oraesia emarginata	orbitella, Kasyfia (see Coleophora orbitella
4437	descriptions of 6443	orbona, Noctua
Opiinae	in Zimbabwe 6443	orbona, Oncometopia
in Hungary 3311	life history of 6443	orbonalis, Leucinodes
venom apparatus in 2672	rearing of, diets for 1321	Orchard pests, book 818

hhd.		
Prchards	Orgyia gonostigma contd.	Oribatei contd.
beneficial insects in, traps for 379	control of	on trees, extracting from bark of 4318
Chrysopa perla in, in Bulgaria 4987	insecticide-pathogen mixture for 3464	Oribatidae, on Eichhornia crassipes 274
C. ventralis in, in Bulgaria 6306	insecticides for 3464	orichalcea, Plusia (see Thysanoplusia
Lepidoptera in	in USSR 3464	orichalcea)
effects of insecticides on 6121	on fruit trees, in USSR 3464	orichalcea, Thysanoplusia (Plusia)
in Honshu 6121	Orgyia leucostigma, sex-pheromone gland	Oricoruna, gen. nov., description of 703
parasitic insects in, in Lithuania 3466	in, muscles associated with 2180	Oricoruna arcotensis
pest control in 1449	Orgyia postica	in India 703
Phytoseiidae in	hyperparasitised by, Brachymeria	parasitising, Icerya spp., in India 703
in Moldavia 3848	jambolana, in Bangladesh 6325	taxonomy of
in Taiwan 1995	in Bangladesh 6325	Pachycrepoideus coorgensis as synonym
predatory arthropods in, in Yugoslavia	parasitised by, Carcelia spp., in	of 703
1463	Bangladesh 6325	transferred from Pachycrepoideus 703
Syrphidae in, in Poland 2438	Orgyia pseudotsugata	Oricoruna orientalis
rchid, Conchaspis angraeci on 506	acephate susceptibility in, role of esterase	in Philippines 703
rdinarius, Eurhynchothrips	isoenzymes in 2641	taxonomy of, transferred from Coruna
Ordnance stores, termite control in 4463	carbaryl susceptibility in, role of esterase	703
Pregon	isoenzymes in 2641	Oriental region, Phaenocarpa spp. in 4446
Chloealtis aspasma in, natural enemies of	control of	orientalis, Aonidiella
248	insect growth regulators for 2072	
	insecticides for 2071, 2072, 2641,	orientalis, Atherigona
Chrysoteuchia topiaria in, on Poa 2410	3102, 5215	orientalis, Blatta
Contarinia pseudotsugae in, on	integrated 5783	orientalis, Bruchocida
Pseudotsuga 2057	mating disruption for 1070, 4106	orientalis, Coruna (see Oricoruna orientalis)
Cydia pomonella in, on pear 3483, 5609	non-target effects of 3102	orientalis, Eupteryx
Dasineura gleditchiae in, on Gleditsia	dispersal of 519	orientalis, Eutetranychus
5192	egg-masses of	orientalis, Haplogonatopus
Dendroctonus pseudotsugae in 3606	distribution on trees of 517	orientalis, Oricoruna (Coruna; Pachycrepis)
on Pseudotsuga 560, 2596	laboratory production of 517	orientalis, Orius
Epitrimerus pyri in, on pear 5609	enzymes in 2641	orientalis, Pachycrepis (see Oricoruna
Eucosma sonomana in 536	in Canada 519	orientalis)
on <i>Pinus</i> 6593, 6594	in USA 519, 554, 1070, 2586, 3102,	orientalis, Thamnurgus
Homoeosoma electellum in, on sunflower	3588, 4106, 4636, 5215, 5216, 5217,	orientalis, Vespa
1034	5284	Orinocarabus nemoralis (see Carabus
Ips spp. in, on Picea 548	in forests, effects on streamflow of 5217	nemoralis)
Leperisinus californicus in 5204	nuclear polyhedrosis bundle virus in,	orionis, Taeniothrips
Leptopterna ferrugata in, on Festuca 348	DNÁ in 4685	Oripoda, on Quercus, in Texas 3062
Megaloceroea recticornis in, on Festuca	nuclear polyhedrosis single-rod virus in,	Oripodidae, on Quercus, in Texas 3062
348	DNA in 4685	Orius
Melanoplus spp. in 820	nuclear polyhedrosis virus in	in cotton fields
Nosodendron californicum in	interactions between types of 605	effects of insecticides on 1042
on Abies 581	persistence of 512	in Mississippi 1046
on Pseudotsuga 581	production of 512	sampling of 1550
Oidaematophorus monodactylus in 5275	on Abies	in lucerne fields, in Iraq 3451
Orgyia pseudotsugata in 554, 5217	in Oregon 5215	in maize fields, in Mexico 1653
on Abies 4106, 5215, 5216	in Washington 5215	in safflower fields, in Mexico 2298
	on Abies concolor	in soyabean fields, effects of insecticides
on forest trees 3102	effects of site and stand characteristics	on 4720
on Pseudotsuga 519, 5215	on 3588	preying on
Psylla pyricola in, on pear 3483, 5609		
Quadraspidiotus perniciosus in, on pear	effects on growth rate of 4636	Aphidoletes spp., in Poland 3465
2434	in New Mexico 1070, 4106	Heliothis armigera, in Israel 1037
Rhagoletis indifferens in, on cherry 1984	in Oregon 4106	Thysanoptera, in India 5468
Rhyacionia zozana in 536	on Abies grandis, damage caused by	Orius albidipennis
Scolytus ventralis in, on Abies 2065,	2586, 5216	biology of 834 in Nigeria 6515
2586, 5216	on forest trees, in USA 5284	
Stibadium spumosum in, on sunflower	on Pinus ponderosa, in New Mexico	preying on
1033	1070, 4106	Heliothis armigera 834
Tetranychus urticae in, on pear 3483,	on Pseudotsuga menziesii	Megalurothrips sjostedti, in Nigeria
5609	in British Columbia 519	6515
Preina, taxonomy of, relation of Chrysolina	in Oregon 519, 5215	Orius amnesius
and 4207	in Washington 5215	sp. nov., description of 6515
Preina cacaliae, chromosomes in 4207	outbreaks of 3588	in Nigeria' 6515
Prfamone (see 8-Dodecen-1-ol, acetate, (Z)-)	recreational business not affected by	preying on, Megalurothrips sjostedti, in
Prfralure (see 8-Dodecen-1-ol, acetate, (E)-,	554	Nigeria 6515
with (Z)-8-dodecenyl acetate)	parasites of, not affected by sex	Orius insidiosus
Prgilus punctulator	pheromone 1070	bibliography 260
in France 4630	parasitised by	in USA 459, 460, 2528, 4600, 4603,
parasitising, Coleophora serratella, and	Telenomus californicus, in New Mexico	4916, 5059, 6194, 6195, 6196
biological control using, in Switzerland	1070	in cotton fields, effects of herbicides on
4630	Tetrastichus spp., in New Mexico	4600
Prgyia, in North America 5284	1070	in potato fields, in Pennsylvania 4916
Prgyia antiqua	preyed on by	in soyabean fields
control of, mating disruption for 6599	Camponotus spp. 2560	distribution pattern of 6195
in Canada 6599	Parus gambeli 2560	effects of cultural practices on 460
in Chile 4442	Orgyia thyellina	effects of insecticides on 6194
in China 5473	cytoplasmic polyhedrosis virus in, effects	effects of pest control practices on 459
in Poland 2445, 3592, 3982	of 2112	in Iowa 6196
on apple, in Poland 2445	nuclear polyhedrosis virus in, effects of	in vineyards, in Pennsylvania 5059
parasites of	2112	on cotton, not damaging terminals 3549
effects of insecticides on 2445	Orgyia trigotephras	preying on
in Poland 3592	in Italy 5288	Heliothis spp., in Mississippi 2528
parasitised by	on Quercus suber, in Sicily 5288	H. virescens, in Texas 4603
Telenomus dalmanni	parasitised by, Gryon hungaricus, in Sicily	Sericothrips variabilis, in Kentucky
in Chile 4442	5288	6195
in Poland 2445	Orgyia vetusta cana, taxonomy of, raised to	seasonal abundance of 6196
T. monticola, in China 5473	specific rank 5284	Orius majusculus, in Hungary 3314
Trichogramma cacoeciae, in Poland	Oribatei	Orius maxidentex
2445	in Norway 4407	in India 3416, 5468
Orgyia cana, taxonomy of, raised from	in Philippines 6004	preying on
subspecies of O. vetusta 5284	in grain fields, in USSR 1306	Contarinia sorghicola, in Karnataka
Orgyia gonostigma	in sunflower fields, in USSR 1306	3416
biology of 3464	on Quercus, in Texas 3061, 3062	Thysanoptera, in India 5468
0.0.087 01 0.101		

biology of 3473	on, and biological control using, in	on strawberry, damage caused by 143
feeding behaviour in 2959 in Hungary 3314	USSR 1363 Oroxylum indicum	Orthosia miniosa in Yugoslavia 5793
in Netherlands 202	Brevipalpus phoenicis on, development of	on Quercus borealis, in Yugoslavia 57
in Poland 3473	35 Disprisis abligans on Septime by 5015	Orthotomicus caelatus
in apple orchards, in Poland 3473 prey of 3473	Diacrisia obliqua on, feeding by 5015 orphana, Pyrgoides	attractants for 1571 in USA 1571
preying on	Orphulella speciosa (see Orphulina speciosa)	Orthotomicus proximus
Panonychus ulmi 3474	Orphulina speciosa	in Finland 4101, 4102
Tetranychus urticae 2959 Thrips tabaci, in Netherlands 202	control of, insecticides for 5980 in USA 5980	in pine wood, in Finland 4102 in spruce wood, in Finland 4102
rearing of, techniques for 3473	orseis, Ascia monuste	Orthotylus nassatus
Orius orientalis, Crotalaria witches' broom, causal agent in, transmission of 1005	Orseolia oryzae attraction of, to light 3957	in USA 2069 on Acer pseudoplatanus, in Pennsylvan
Orius tantillus	control of	2069
in India 5468	cultural 3381	Orthotylus translucens
preying on, Thysanoptera, in India 5468 Orius tristicolor	insecticides for 328, 2379, 3947 food-plants of 2909	taxonomy of Diaphnocoris pellucida misidentified
bibliography 260	hyperparasites of, in Thailand 2911	27
locomotion in, effects of light intensity and flicker on 5368	in China 918 in India 328, 1399, 2379, 3381, 3912,	D. ulmi misidentified as 27 Labopidea allii misidentified as, on
Orius vicinus	3919, 3922, 3947, 3955, 3957, 3974,	onion 27
in France 379, 5607	5036, 6375, 6401, 6420	Orthotylus vigilax misidentified as, o
in apple orchards, in France 379 preying on, <i>Psylla pyri</i> , in France 5607	in Indonesia 321 in Sri Lanka 324	mesquite 27 synonym of <i>Diaphnocoris provanche</i>
traps for 379	in Thailand 325, 2909, 2911, 3909, 6394	27
orizicola, Sogatodes	on Leersia hexandra, in Thailand 2909	Orthotylus vigilax, taxonomy of,
ormyrus flavitibialis sp. nov., description of 5736	on Oryza perennis, in Thailand 2911 on Paspalum, in Thailand 2909	misidentified as O. translucens, on mesquite 27
in Japan 5736	on rice	Orthotylus viridinervis
parasitising, <i>Dryocosmus kuriphilus</i> , in Japan 5736	damage caused by 5036, 6394 effects of crop density on 6394	in Canada 2069 on <i>Ulmus americana</i> , in Canada 2069
Ormyrus punctiger	effects of sowing date on 3381	Oryctes
distribution of 5736	effects of split transplanting on 6420	biology of, review 5439
hosts of 5736 in Japan 5736	in Andhra Pradesh 2379 in Asia 900	control of, review 5439 Oryctes boas
parasitising, Dryocosmus kuriphilus, in	in China 918	taxonomy of
Japan 5736	in Indonesia 321	characters distinguishing O. gigas an
Ornamental plants arthropod pests of	in Madhya Pradesh 3919, 3947 in Orissa 328	2936 characters distinguishing <i>O. monoce</i>
in Ĉanada 2792	in Sri Lanka 324	and 2936
in Indiana 2850 in Tasmania 5416	in Thailand 325, 2909, 3909 resistance to 1399, 3912, 3922, 3955,	Oryctes gigas taxonomy of
in UK 2654	3974, 6401	characters distinguishing O. boas and
in West Germany 2162	mechanisms of 5562	2936
in Zimbabwe 4720 Chrysobothris affinis on, in Tadzhikistan	varietal preferences of 6375 on Zizania aquatica, in Thailand 2909	characters distinguishing O. monoces and 2936
1249	parasites of	Oryctes monoceros
Chrysomelidae on, in Chandigarh 5406	effects of insecticides on 328	descriptions of 2936
Curculionidae on, in Tasmania 1441 Diaprepes abbreviatus on, development of	in Sri Lanka 324 in Thailand 2911	in Seychelles 2936 taxonomy of
4556	parasitised by, Platygaster oryzae, in	characters distinguishing O. boas and
Heliothis virescens on, enzymes in 1214 insect pests of	Orissa 328 rearing of, techniques for 3936	2936 characters distinguishing O. gigas an
in UK 4721	seasonal abundance of 2909, 3919	2936
in Yugoslavia 2078	sex ratio in 3936	Oryctes nasicornis
insecticides in, residues of, Japanese tolerances for 6722	Orthacris simulans (see Neorthacris simulans)	distribution of 4296 gut in, methane-producing fermentation
mites on, in Nigeria 6269	Orthene (see Acephate)	5317
pest control on book 2622	Orthobux (see Bufencarb)	in Italy 4296
pesticides for 1688, 2629, 2630, 2631,	Orthodibrom (see Naled) orthogonia, Agrotis	on Ilex, in Italy 4296 Oryctes rhinoceros
6500	Orthoptera	attractants for 685
soaps for 1063 Psylloidea on, in British Isles 6029	control of 230 in Fennoscandia 139	Baculovirus spp. in, effects on pig of 3167
Rhizoecus spp. on, in Florida 3057	in Quebec 5407	control of, cultural 1959
Tetranychidae on, in Rajasthan 1361	in Soviet Central Asia 2755	in Sri Lanka 1175
Tetranychus urticae on, in UK 268 Tipulidae on, in UK 5044	in Transcaucasia 230 in cacao plantations, in Costa Rica 5133	integument in, electrical properties of 5332
Trialeurodes vaporariorum on	on Cajanus cajan, in Nigeria 1016	parasitised by, Scolia quadripustulata,
in Austria 5734 in Ohio 229	on Eichhornia crassipes 274	Sri Lanka 1175
in Sweden 5733	on Larix decidua, in Poland 2593 on leguminous crops, in Egypt 4357	transpiration in 1959 Oryza, Scirpophaga incertulas on, resista:
ornata, Subsaltusaphis	on soyabean	to 1398
ornatum, Eurydema ornatus, Cerococcus	in Kenya 1520 in New South Wales 1518	Oryza latifolia, rice ragged stunt virus in infectivity of 883, 885
ornatus, Trichodes	on sunflower, in Kenya 1541	Oryza minuta
orni, Cicada	parasitised by, <i>Ocencyrtus</i> spp. 3369	rice grassy stunt virus in, resistance to
ornigis, Apanteles Ornithine δ-transaminase (see	plant consumption by 230 preyed on by, <i>Tachytes</i> spp., in South	1931 Scirpophaga incertulas on, resistance to
Aminotransferase, ornithine-keto acid)	America 2764	1398
Ornithine transcarbamoylase (see Carbamoyltransferase, ornithine)	Orthopteroidea, in Soviet Central Asia 2755	Oryza nivara, rice ragged stunt virus in,
L-Ornithine	Orthosia, in Yugoslavia 5965	infectivity of 883, 885 Oryza officinalis, Scirpophaga incertulas
Aphis fabae feeding responses to 1824	Orthosia hibisci	resistance to 1398
in Vicia faba 1824 ornithogalli, Spodoptera	attractants for 4904 flight activity in 4914	Oryza perennis, Orseolia oryzae on, in Thailand 2911
Ornithopus compressus	in Canada 1439, 1977	Oryza perreiri, Scirpophaga incertulas or
Acyrthosiphon kondoi on, development of	in USA 4914	resistance to 1398
930 Therioaphis trifolii on, development of	on apple in New York 4914	Oryza ridleyi, Scirpophaga incertulas on, resistance to 1398
930	in Nova Scotia 1977	Oryza sativa (see Rice)

Pryza tisseranti, Scirpophaga incertulas on,	Oscinella frit contd.	Ostrinia nubilalis contd.
resistance to 1398	in grassland	neurosecretory system in, effects of high
ryzae, Agromyza ryzae, Atherigona	effects of fertilizers on 347 effects of insecticides on 347	temperatures on 4257 non-diapausing strain of 6164
ryzae, Calandra (see Sitophilus oryzae)	larval development in, effects of	Nosema pyraustae in, in Nebraska 306
ryzae, Chironomus	temperature on 5383	on Capsicum, in Ontario 4053
ryzae, Chlorops	on barley	on hemp, in Ukraine 2736
ryzae, Echinocnemus	in Belorussia 3361	on maize
ryzae, Latheticus	varietal preferences of 875	assessing infestations of 3378
ryzae, Obtusiclava	on grain crops	effects of herbicides on 5028
ryzae, Orseolia (Pachydiplosis) ryzae, Oryzophagus	damage caused by 1369, 6350	in Bulgaria 314, 2620
ryzae, Oulema	in Byelorussia 2867 oviposition by 3801	in Egypt 3371 in Iowa 878
ryzae, Pachydiplosis (see Orseolia oryzae)	on grasses	in Italy 5534
ryzae, Platygaster	damage caused by 1369	in Ontario 311
ryzae, Schizotetranychus	oviposition by 3801	in Switzerland 5538, 5652
ryzae, Sitophilus (Calandra)	on Lolium, damage caused by 3442	in Ukraine 2736
Pryzaephilus	on maize	in West Germany 1927, 2891, 3887
control of, insecticides for 3141, 3679	damage caused by 1926, 2363	in Yugoslavia 5030
in stored groundnuts, in Kansas 3679 in sultanas, in Victoria 3141	forecasting infestations of 5963	model 5542
best status of, changes in 3334	in East Germany 5383 in England 4176	resistance to 880, 6162, 6163, 6366
Dryzaephilus mercator	in France 218	varietal preferences of 5541 on <i>Phaseolus vulgaris</i> , damage caused by
control of	in Poland 2893	4894
fumigants for 6646	in Switzerland 5536, 5652	on potato
resistant packing containers for 2606	in UK 218	damage caused by 6537
in Nigeria 6645, 6646, 6647	in West Germany 2891	in Virginia 4906
in cacao beans, in Nigeria 6645, 6646	on oats	parasites of, effects of development stage
in oil-palm kernels, in Nigeria 6645 in stored groundnuts, in Nigeria 6647	attraction of 303 effects of cover crops on 3883	on 6165
in sunflower seeds, interactions with other	forecasting infestations of 5963	parasitised by Lixophaga diatraeae 6165
pests of 3681	in Belorussia 3361	Telenomus ostriniae, in China 4993
predation by 3681	in Scotland 4175	Trichogramma evanescens 2813
preyed on by, Xylocoris flavipes 2099	varietal preferences of 5530	T. nubilale 309
seasonal abundance of 6647	on pasture plants, in UK 5575	Perezia pyraustae in
Oryzaephilus surinamensis	on <i>Phalaris arundinacea</i> , resistance to	in Italy 5534
control of 593 evaluating of 5424	924	pathogenicity of 5534
fumigants for 228, 3114	on wheat, in USSR 670 oviposition in 5530	population dynamics of 306 postmating age in 4053
growth regulators for 590, 2092, 4713	effects of temperature on 5383	rearing of, diets for 812, 813, 4878
humidity control for 3113	traps for 2774, 5383	sex pheromone of
inert dusts for 2598	Oscinella phlei	genetic differences in ratio of
insecticides for 3140, 3141, 3659	in Poland 2893	components of 741
protective atmospheres for 3646	on maize, in Poland 2893	receptors for 666, 1747
resistant packing containers for 2606 temperature control for 3669	Oscinella pusilla control of, insecticides for 2867	strains of 311 thermal stress as affecting 4257
enzymes in 4159	in USSR 2867	ostriniae, Telenomus
in India 6640	on grain crops, in Byelorussia 2867	Otiorhynchus cribricollis
in Iran 228	Osmanthus persicum, Panonychus elongatus	control of, insecticides for 992
in UK 4660	on, in China 4866	in Italy 992
in rice grain	Osmia cornuta, cold tolerance in 6115	on market-garden crops, in Italy 992
effects of glazing on 593	osseatella, Euzophera	on olive, in Italy 992 Otiorhynchus ligustici
in Iran 228 in sunflower seeds, interactions with other	ostiolatus, Paraseiulus Ostrinia furnacalis	in USA 4945
pests of 3681	control of, insecticides for 5533	on lucerne, assessing infestations of 494
in wheat products, extracting of 3668	feeding behaviour in 313	Otiorhynchus ovatus
life-span in, not affected by γ-irradiated	in Papua New Guinea 5533	in USA 5503
diet 1108	on maize	on Potentilla, in USA 5503
lindane resistance in, in India 6640	feeding by 313	Otiorhynchus rugosostriatus
malathion resistance in in India 6640	in Papua New Guinea 5533 parasitised by, <i>Trichogramma</i> spp., in	in Australia 1441 on strawberry, in Tasmania 1441
mechanisms of 4159	Papua New Guinea 5533	Otiorhynchus sulcatus
preyed on by, Holepyris sylvanidis, in	Ostrinia nubilalis	biology of 215, 505
Americas 3847	attractants for 880	control of
oryzaetora, Tomosvaryella	biology of 880, 6537	biological 5947
oryzivora, Cerodontha	botanical insecticides in, bioassay for	growth regulators for 5185
oryzivora, Thaia Oryzophagus oryzae	3716 control of 880, 6368	insecticides for 215, 505 embryonic development in
in Brazil 4519	biological 626, 2364, 2620, 2891, 3887,	effects of humidity on 1201
on rice, effects of water depth on 4519	5249, 5538	effects of temperature on 1201
oryzophilus, Lissorhoptrus	genetic 6164	in Australia 1441, 5947
sborni, Brachyufens	insecticides for 314, 878, 2891, 4906,	in Netherlands 215
Oscinella, on maize, forecasting infestations	5652, 6537	in USA 505, 1201, 5185
of 2880 Oscinella frit	mating disruption for 1747 spray equipment for 3887	on strawberry damage caused by 215
biology of 1369	threshold for 1927	in Tasmania 1441
control of 1369, 1926, 6693	development in, effects of temperature on	on Taxus media, in New York 5185
cultural 3361, 3883	5543	resting places of 1201
insecticides for 218, 670, 2363, 2867,	diapause in 311, 772, 5030	ou, Rachiplusia
2891, 3442, 4176, 5523, 5536, 5652	food-plant relations in 2736	Ouabain , in insects sensitivity to review 745
threshold for 3361, 5963	hemocytes in 3265 in Bulgaria 314, 2620	in insects, sensitivity to, review 745 in Locusta migratoria
timing of 2363 in East Germany 2774, 5383	in Canada 311, 4053	effects on Malpighian tubules of 5337
in France 218, 3432, 3801	in China 4993	inhibiting secretion by Malpighian
in Poland 2893	in Egypt 3371	tubules 2209
in Romania 875	in France 880, 2364, 6368	not affecting adenosine triphosphatase
in Switzerland 5523, 5536, 5652	in Italy 5534, 6459	2193
in UK 218, 1369, 2887, 3442, 4175,	in Switzerland 5538, 5652	Oulema control of, thresholds for 6362
4176, 5575, 6350 in USA 347, 924	in USA 306, 311, 878, 1747, 4906, 6537 in USSR 626, 2736, 3378, 5249, 5543	on grain crops, assessing infestations of
in USA 347, 924 in USSR 670, 2867, 3361, 5963, 6693	in West Germany 1927, 2891, 3887	2866
in West Germany 1926, 2363, 2891	in Yugoslavia 5030, 5541, 5964	on wheat, damage caused by 6362

Oulema lichenis	Ovatus malisuctus, on apple, distribution	Oxidus gracilis contd.
biology of 1386 control of, threshold for 2882, 2883	pattern of 3471, 5599 Oviposition-deterring pheromones	on cucumber, in UK 6508 Oxirane, 2-decyl-3-(5-methylhexyl)-, cis-
food-plants of 2881	Hylemya 87	(see Disparlure)
habitats of 2881 and the in East Germany 2882, 2883	Rhagoletis cerasi 1474, 5610 R. pomonella, receptors for 4892	Oxirane, 2-ethyl-3-[3-ethyl-5-(4- ethylphenoxy)pentyl]-2-methyl- (see
in Hungary 2881	Ovis aries (see Sheep)	Epofenonane)
in USSR 1386 mortality in	ovulorum, Tetrastichus Owadofos (see Fenitrothion)	Oxirane, 2-ethyl-3-[5-(4-ethylphenoxy)-3-methyl-3-pentenyl]-2-methyl-, against,
effects of humidity on 1292	Oxalic acid (see Ethanedioic acid)	Spodoptera littoralis 3230
effects of temperature on 1292 on barley, damage caused by 2883	Oxalis corniculata, Gastrophysa atrocyanea on, not developing 849	Oxirane, 3-[6-(4-ethylphenoxy)-3-methyl-3- hexenyl]-2,2-dimethyl-, against,
on grain crops, in USSR 1386 on oats, not feeding 2881	Oxamyl (methyl 2-(dimethylamino)-N- [[(methylamino)carbonyl]oxy]-2-	Spodoptera littoralis 3230
on wheat	oxoethanimidothioate)	Oxirane, 3-[5-(4-ethylphenoxy)-3-methyl-3-pentenyl]-2,2-dimethyl-
damage caused by 2883 feeding by 2881	against Agromyzidae, on Vigna radiata 445	for regulating development and silk
oviposition in 2882	Aleurocanthus woglumi, on Citrus	production in <i>Bombyx mori</i> 2844 (E)-
parasites of, in USSR 1386 preyed on by, Carabidae, in USSR 1386	3502 Irenimus compressus, on black currant	against
Oulema melanopus biology of 1386	6720 Liriomyza sativae, on tomato 473	Heliothis armigera 6705 Spodoptera littoralis 4378
control of	Lygus spp., on lucerne 2297	on cotton 4385
biological 873, 6348, 6364 insecticides for 2635	Myzus persicae, on potato 6233 Otiorhynchus sulcatus, on strawberry	in cucumber fields, effects on soil- inhabiting mites of 2478
threshold for 2882, 2883	215	in Gryllodes sigillatus
timing of 2888 dispersal of 6263	Panonychus ulmi, on apple 6468 pests of tobacco 4609	effects on pigmentation of 2219 effects on reproduction of 683
model 6139 food-plants of 2881	Tetranychus urticae, on strawberry 1440	in Microctonus aethiopoides, effects of 6241
habitats of 2881	Typhlocyba pomaria, on apple 6468	in Microctonus colesi, effects of 6241
in Canada 2635, 6348 in East Germany 2882, 2883	in mouse, metabolism of 4150 in <i>Tetranychus urticae</i> , metabolism of	in Sesamia cretica, effects of 761 in Spodoptera littoralis, effects of age
in Hungary 2881	4150	on susceptibility to 4365
in USA 873, 4504, 6139, 6263, 6364 in USSR 1386, 2888	in tobacco plantations, effects on predatory insects of 4609, 4934	with insecticides 4385 Oxotremorine, in Drosophila melanogaster,
mortality in	in tomato fields, effects on parasitic	toxicity of 6699
effects of humidity on 1292 effects of temperature on 1292	insects of 473 with fungicides, against, pests and diseases	Oxya on rice
on Avena sterilis, resistance to 865	of Chrysanthemum 4613	in Bihar 2900
on barley damage caused by 2883	7-Oxa-5-thia-2-aza-6-phosphanonanoic acid, 6-ethoxy-2-methyl-3-oxo-, ethyl ester, 6-	in Indonesia 3415 in Punjab 5553
in Ontario 6348 resistance to 865	sulfide (see Mecarbam) 2-Oxa-4-thia-7-aza-3-phosphaoctan-8-oic	Oxya japonica (see O. yezoensis) Oxya yezoensis, ovarian development in,
mechanisms of 6157	acid, 3,7-dimethyl-6-oxo-, methyl ester,	effects of food-plant on 39
on grain crops, in USSR 1386 on oats	3-sulfide (see Mecarphon) 4-Oxa-2-thia-3-phospha-1-stannahexane,	Oxycarenus hyalinipennis feeding behaviour in 1677
effects of discing on 873	1,1,1-tricyclohexyl-5-methyl-3-(1-	in cottonseed
effects of ploughing on 873 feeding by 2881	methylethoxy)-, 3-sulfide, against, Tetranychus urticae, on strawberry	development of 1542 excretion by 3748
in Ontario 6348	1440	in kenaf seeds, development of 1542
in Wisconsin 6364 resistance to 865	5-Oxatricyclo[8.2.0.0*.°]dodecane, 4,12,12- trimethyl-9-methylene-, in <i>Papilio</i>	in maize grain, development of 1542 Oxycarenus laetus
on wheat damage caused by 2883, 6158	protenor larval osmeterial secretion 4234	food-plants of 2350 in India 2350
feeding by 2881	1,3,2-Oxazaphospholidine, 2-methoxy-4-(1-	Oxydemeton-methyl (S-[2-
in Caucasus 2888 resistance to 865, 868	methylethyl)- 2-sulfide, (4 <i>S</i>)-	(ethylsulfinyl)ethyl] O,O-dimethyl phosphorothioate)
mechanisms of 6157	acaricidal activity of 653	against
oviposition in 868, 2882 parasites of	insecticidal activity of 653 1,3,2-Oxazaphospholidine, 2-methoxy-4-(2-	Aleurocanthus woglumi, on Citrus 3502, 4566
effects of discing on 873 effects of insecticides on 2635	methylpropyl)- 2-sulfide, (4S)-	Aphis gossypii, on sugar-beet 6532 Bemisia tabaci, on tomato 5703
effects of ploughing on 873	acaricidal activity of 653	Cysteochila ablusa, on Bauhinia 1558
in Wisconsin 6364 parasitised by	insecticidal activity of 653 Oxidase	Drosophila melanogaster 2636 Dysaphis plantaginea, on apple 5606
Lemophagus curtus, in Maryland 4504	in insects, role in pesticide metabolism of	Eriosoma lanigerum, on apple 5071
Tetrastichus julis in North Carolina 4504	in mammals, role in pesticide metabolism	Monellia caryella, on pecan 2943 M. nigropunctata, on pecan 2943
in Ontario 2635 population dynamics of 6139	of 3197 in <i>Peridroma saucia</i> , effects of food-plant	Myzus persicae, on sugar-beet 6532 Pterochloroides persicae, on peach 39
seasonal abundance of 2888	on activity of 4785	Sitobion rosaeiformis, on rose 5137
traps for 6263 Oulema oryzae	mixed function in <i>Diabrotica undecimpunctata</i> ,	Sundapteryx biguttula, on castor 405 in Drosophila melanogaster, effects of
control of, threshold for 332	properties of 6217	application site on susceptibility to
in Japan 332 in Taiwan 6376	in <i>Ďiabrotica virgifera</i> , properties of 6217	2636 in tobacco, residues of 5728
on rice, damage caused by 332, 6376 Oulema rufocyanea	in Heliothis virescens larvae, role in parathion-methyl resistance of	Oxydia trychiata control of, biological 6144
food-plants of 2881	6087	in Colombia 5170
habitats of 2881 in Hungary 2881	in Musca domestica, role in trichlorphon resistance of 1812	parasitised by, Telenomus alsophilae 6144
on oats, feeding by 2881	Oxidase, cytochrome, in Piophila casei,	Oxygenase, monophenol mono-
on wheat, feeding by 2881 Oulema septentrionis	effects of irradiation on 4757 Oxidase, glucose, in Schistocerca gregaria	in Bombyx mori, formation from proenzyme of 4224
food-plants of 2881 habitats of 2881	cuticle, characterization of 3261 Oxidase, monoamine, in Tyrophagus	in Eurygaster integriceps, role in
in Hungary 2881	putrescentiae, properties of 4758	immunity to parasites of 3264 Oxygenase, promonophenol mono-, in
on oats, not feeding 2881 on wheat, feeding by 2881	Oxidase, polyphenol (see Oxygenase, monophenol mono-)	Bombyx mori, activation of 4224 Oxygenase, tryptophan 2,3-di-
ovalis, Amblyseius	Oxidase, urate, in Isoptera, not found 4223	in Carausius morosus
ovata, Brachymeria ovatus, Aleuroglyphus	Oxidus gracilis in UK 6508	activity pattern of 2689 properties of 2689

ubject Index		1065
Oxyna parietina, on Artemisia absinthium 1905	Pachypasa capensis contd. on Pinus, in southern Africa 5169	Pakistan contd. Patna rhizolineata in, on Sorghum
Oxyopes, in rice-fields, effects of insecticides on 6411	Pachypsylloides on Calligonum, in Turkmenia 280	halepense 6430 Pectinophora gossypiella in
Oxyopes javanus in Philippines 904	parasitised by, <i>Psyllaephagus</i> spp., in Turkmenia 280	natural enemies of 1950 on cotton 495, 4072
preying on, Cnaphalocrocis medinalis, in Philippines 904	pachypyga, Patelloa Pachysomoides stupidus	Phyllonorycter montanella in, on Lonicera 4478
Oxyopes longispinosa dieldrin in, toxicity of 6328	larval competition and brood sex ratios in 3846	Poekilocerus pictus in 4425 Pteromalidae in 702
in South Africa 6328 Oxyopes sakuntalae	parasitising, Polistes canadensis 3846 Pachystethus marginatus	Pyrilla perpusilla in, natural enemies of 4447
in India 3939 in rice-fields, in Kerala 3939	flight activity in, relation of coloration and 2184	Schistocerca gregaria in 1873, 2316, 5917
preying on, Nilaparvata lugens 3939 Oxyopes salticus	in USA 2184 Pacific region, Scolytidae in 4724	natural enemies of 2318 Schizaphis graminum in, natural enemies
in USA 2528, 4603 preying on Heliothis spp., in Mississippi 2528	pacifica, Megachile (see M. rotundata) pacificus, Tetranychus Packaging materials, stored-product insects	of 1917 Scirpophaga incertulas in, on rice 3972 S. innotata in, on rice 3972
H. virescens, in Texas 4603 Dxyopidae	in, damage caused by, specific identity of 4678	Sesamia inferens in, on rice 3972 Sogatella furcifera in, on rice 3914, 3931,
in cotton fields, effects of insect-resistant varieties on 1047	packardii, Melanoplus Packing containers, improving resistance to	6386 stored products in, insect pests of 3628
in maize fields, in Florida 2367 in rice-fields, in West Bengal 4507	insects of 2606 Pacol (see Parathion, with oil emulsion)	Thrips tabaci in, on cotton 2038 Tryporyza spp. in, on rice 882
Oxyrhachis tarandus control of, cultural 2488	Padan (see Cartap) padellus, Yponomeuta	pakistanum, Praon Palaearctic region
gut in 1774 in India 2488	padi, Rhopalosiphum Paecilomyces farinosus	Acmaeoderini in 1305 Auchenorrhyncha in 5401
on Cajanus cajan, effects of intercropping on 2488	against, Malacosoma neustria 3158	Coccinellidae in 4193 Syrphidae in, natural enemies of 3346
on Prosopis juliflora, excretion by 3748 Oxytelus sculpturatus (see Anotylus	Dendrolimus sibiricus, in USSR 1123 Galleria mellonella, not pathogenic	Palaemon adspersus, bioassay of locust adipokinetic hormone using 1792
sculpturatus) Oxytetracycline	1123 Yponomeuta padellus, pathogenicity of	Palaeodrepana harpagula, in Italy 6125 palaestinicus, Caryedon serratus
in Dysdercus cingulatus, effects of 3190 in Galleria mellonella, effects on gut flora	1123 Paecilomyces fumosoroseus	paleana, Aphelia pales, Hylobius
of 5850 Description of stored 2621	in Gelechia hippophaella, in Buryatia	palestineae, Rhizoecus Palexorista
products 3631 Pachliopta aristolochiae, in India 2757 Pachnaeus litus	Lymantria dispar, effects of 6682 Mamestra brassicae, pathogenicity for	parasitising Lymantria dispar, in Poland 3592 Noctuidae, in Western Australia 6356
illustrations of 2971 in USA 2971, 6484	eggs of 6672 mouse, no effects from 1633	Palexorista inconspicua diflubenzuron in, toxicity of 4642
on Citrus, in Florida 2971, 6484 parasitised by, Trichogramma spp. 6484	quail, effects of 6682 Spodoptera littoralis	in France 4642 parasitising, Lymantria dispar, in France
Pachnaeus opalus control of, biological 6484	pathogenicity for eggs of 6672 pathogenicity of, effects of	4642 pallasi, Opsius
illustrations of 2971 in USA 2971, 6484	temperature on 6680 insect control using 626	pallens, Geocoris palliatus, Tanymecus
on Citrus, in Florida 2971, 6484 parasitised by	Paecilomyces tenuipes in	pallida, Biorhiza pallida, Nesoclutha
Brachyufens osborni, in Florida 6484 Trichogramma spp., in Florida 6484	Panoquina spp., in Colombia 3940 Spodoptera spp., in Colombia 3940	pallidactylus, Ceutorhynchus pallidefulva, Formica
Pachnoda sinuata flaviventris, rearing of, techniques for 397	Paederus alfierii in Egypt 1042	pallidevittatus, Eudiagogus pallidifrons, Zygina
Pachycrepis orientalis (see Oricoruna orientalis)	in cotton fields, effects of insecticides on 1042	pallidipennis, Acanthoscelides pallidipennis, Trimerotropis
Pachycrepoideus arcotensis, taxonomy of, transferred to Oricoruna 703 Pachycrepoideus coorgensis, taxonomy of,	Paederus fuscipes diurnal activity in 3916 in Indonesia 3415	pallidipes, Parahormius pallidovirens, Thyanta pallidula, Pheidole
synonym of Oricoruna arcotensis 703 Pachydiplosis oryzae (see Orseolia oryzae)	in Malaysia 3407, 3408, 3916, 6408 in rice-fields	pallidulus, Taylorilygus pallidus, Prolasius
Pachygaster minutissima in France 5186	effects of insecticides on 3407 in Indonesia 3415	pallidus, Spathius pallidus, Steneotarsonemus (see Tarsonemus
in Scolytid tunnels, in France 5186 Pachygastrinae, in Papua New Guinea	in West Malaysia 3916, 6408 preying on, Nilaparvata lugens, in West	pallidus) pallidus, Tarsonemus (Steneotarsonemus)
6625 Pachymerus cardo	Malaysia 3408 traps for 3916, 6408	pallidus, Trioxys pallipes, Amblyopone
in Nigeria 6645 in oil-palm kernels, in Nigeria 6645	Paederus ilsae in Iraq 3451	pallipes, Opius pallisteri, Macrocentrus
Pachyneuron parasitising	in lucerne fields, in Iraq 3451 Pagria, on Vigna radiata, in West Malaysia	Palm, date (see Date palm) Palm, oil (see Oil palm)
Psylla pyricola, in Ontario 5074 Saissetia oleae, in Libya 3508	431 Painella simmondsi in Solomon Islands 4179	Palm oil against Sitophilus oryzae, in stored grain 6658
Pachyneuron aphidis hyperparasitising Saissetia oleae, in Libya 3508	on coconut, in Solomon Islands 4179 preyed on by, Oecophylla smaragdina, in	Sitotroga cerealella, in stored grain 6658
Toxoptera aurantii, in Greece 6302 in Greece 6302	Solomon Islands 4179 Pak-choi (Brassica chinensis) (see Cabbage,	Palm trees Auchenorrhyncha on, in Florida 5583
in Libya 3508 Pachyneuron pentatomivora, taxonomy of,	Chinese) Pakistan	Brassolis astyra on, in Brazil 2421 Opsiphanes invirae on, in Brazil 2421
transferred to Manineura 703 Pachyneuron siphonophorae	Acacia arabica in, insect enemies of 5498 Aiolopus thalassinus in 232	Tetranychus piercei on, in Japan 705 palmae, Cerataphis
in USA 2917 parasitising, Lysiphlebus testaceipes, in	Amrasca devastans in, on cotton 2038 Bemisia tabaci in, on cotton 2038	palmarum, Hentzia palmarum, Rhynchophorus
Texas 2917 Pachypappa marsupialis lambersi	biological control in 3185 Cheyletidae in 4982	palmeni, Psylla palmi, Thrips
in Japan 4641 nymphal dimorphism in 4641	Coreidae in 2265 Eurygaster spp. in, natural enemies of	Palmitic acid (see Hexadecanoic acid) Palomena viridissima
on Populus maximowiczii, galls of 4641 Pachypasa capensis	4292 Isoptera in 846, 1895, 5000	in USSR 621 Rhynchomermis elongata in, in Soviet Far
on Acacia, in southern Africa 5169	Mythimna unipuncta in, on rice 902	East 621

1053 Polano

1998

3837

Palorus	Panicum scribnerianum, Pheidole bicarinata	Panonychus ulmi contd.
in dried medicinal plants, in Egypt 2607	collecting seeds of, in Nebraska 1875	on almond, in California 3994
in spices, in Egypt 2607	Panicum virgatum, cereal aphids on, survival	on apple
Palpifer sexnotatus romin	and reproduction of 2358	damage caused by 3982
descriptions of 1533	pannonicus, Agrilus	distribution pattern of 6238
in Japan 1533	Panolis flammea	in Illinois 6468
on Amorphophallus konjac, in Japan	attractants for 2582	in Iowa 954
1533	biology of 3069	in Italy 6457
on yam, in Japan 1533	control of 3069	in Massachusetts 4552
Palpita indica (see Diaphania indica)	insecticides for 6602	in New York 376
palposum, Thelairosoma	in Sweden 5747	in Norway 5605
paludosa, Tipula	in UK 3069, 6602	in Ohio 1976
palustris, Isotomurus	in West Germany 509, 2582	in Ontario 2954
Pammene fasciana	on Pinus, in Sweden 5747	in Quebec 359
in France 3144, 3461	on Pinus contorta, damage caused by	in Switzerland 1456
in sweet chestnuts, in France 3144	3069	in Tasmania 963
on Castanea, in France 3461	on Pinus sylvestris, in UK 3069	on grapevine
Pammene juliana (see P. fasciana)	parasites of, in West Germany 509	assessing infestations of 2940
Pammene suspectana	population dynamics of 6602	distribution pattern of 3458
attractants for 3235	preyed on by, Formica polyctena, in	in Austria 1755
in Czechoslovakia 3235	Sweden 5747	in Pennsylvania 4549, 4908
Pamphiliidae, in Lithuania 5387	taxonomy of 3069	in Switzerland 5589
Pamphilius sitkensis	Panonychus, on almond, in California 3994	on peach, in Venezuela 6475
in USA 939	Panonychus citri	on plum, damage caused by 3982
on raspberry, in Utah 939	control of	outbreaks of, caused by insecticides 39
Panama	acaricides for 1704, 6489	oviposition in 386
biological control in 3185	integrated 5949	population dynamics of 6238
Bruchidae in 1584 Dysdercus bimaculatus in, on Sterculia	soaps for 1063 timing of 6489	models of 2954
113	development in 719	predation of, models of 1981 predators of
Enoclerus signifer in 2171	effects of humidity on 410	effects of insecticides on 3994
Panchaetothrips indicus, in China 4867	effects of temperature on 410	
Pandanus, Forcipomyia spp. in axils of, in	diapause in 6472	effects of pesticides on 376, 1976 in California 3994
Neotropical region 6011	dispersal of 3503	insecticide resistance in 963
Pandemis cerasana	in Australia 5949	monitoring of 3186
control of	in India 410	preyed on by
insecticides for 4551	in Japan 3841, 6472	
timing of 4551	in USA 402, 1063, 6488, 6489	Amblyseius potentillae 1981 Campylomma verbasci 3475
in Canada 1065		Leptothrips mali 4925
in Italy 4551	nonoccluded virus in, in California 402	Neoseiulus fallacis 3186
in Poland 3476, 3477	on Carica papaya, in West Bengal 410 on Citrus	Orius minutus 3473, 3474
in UK 3071, 4307	development of 3503	
on apple	in Texas 6488	Stethorus griseus 2840
in Italy 4551	on Citrus unshiu, development of 719	pyrethroids in, toxicity of 5886 seasonal abundance of 4549
in Poland 3476, 3477	on orange	Panoquina
on Quercus robur, in England 3071	damage caused by 6489	on rice, in Colombia 3940
on rose, in British Columbia 1065	in California 402	Paecilomyces tenuipes in, in Colombia
parasites of, in British Columbia 1065	on pear, in Japan 6472	3940
parasitised by, Ischnus inquisitorius, in	overwintering in 6472	Pantilius tunicatus
England 3071	oviposition in 6472	eversible rectal organ in 4559
Pandemis dumetana	predators of, effects of humidity on 1353	in UK 4559
in Bulgaria 1454	preyed on by	Pantomorus cervinus
on apple, in Bulgaria 1454	Amblyseius deleoni 1353	biology of 5081
seasonal abundance of 1454	A. hibisci, in California 402	control of
Pandemis heparana	Rubroscirus africanus 5	cultural 5081
biology of 5617	Typhlodromus vulgaris, in Hokkaido	insecticides for 5081
control of	3841	descriptions of 5081
biological 5845	spinning behaviour in 1261	distribution of 5081
insecticides for 5617	Panonychus elongatus	illustrations of 2971
distribution of 5617	in China 4866	in Australia 1441
food-plants of 950, 5617	on mandarin, in China 4866	in USA 2971, 5081
in Canada 950	on Melia azedarach, in China 4866	on Citrus, in Florida 2971
in Italy 5617	on Osmanthus persicum, in China 4866	on crop plants, in Tasmania 1441
in Poland 3476, 3477	Panonychus ulmi	taxonomy of 5081
on apple	control of 359	Pantorhytes
in British Columbia 950	acaricides for 376, 1456, 1976, 4908,	in Indonesia 1053
in Poland 3476, 3477	5589, 5886, 6238, 6468, 6714	in Papua New Guinea 1053
on crab apple, in British Columbia 950	biological 963, 5950	in Queensland 1053
on peach, in Italy 5617	models of 386	in Solomon Islands 1053
on pear, in British Columbia 950	cultural 3458	Pantorhytes pseudocarbonarius
on plum, in British Columbia 950	integrated 1760	sp. nov., description of 1053
parasitised by	spray schedules for 6238	in Papua New Guinea 1053
Braconidae, in British Columbia 950	descriptions of 6475	on cacao, in Papua New Guinea 1053
Colpoclypeus florus, in Italy 5617	development in 386	Papaver rhoeas
Tachinidae, in British Columbia 950	dispersal of 386, 3458	Ceutorhynchus denticulatus on, in Pola
sex pheromone of, identity of 3480	distribution of 6475	3776
Pandemis ribeana (see P. cerasana)	food consumption in 386	Corynis similis on, in Greece 479
pandorus, Eumorpha satellitia	in Australia 963, 5950	Papaver somniferum
pandurus, Spilostethus	in Austria 1755	Aylax papaveris on
paniceum, Stegobium	in Canada 359, 2954	damage caused by 3702
Panicum, Hysteroneura setariae on, in	in France 2940	in France 5713
Taiwan 3316	in Italy 209, 6457	Corynis similis on, feeding by 479
Panicum anabaptistum	in New Zealand 1760	Myzus persicae on, in India 5497
Locusta migratoria on	in Norway 5605	papaveris, Aylax (Timaspis)
development of 2321	in Poland 3475, 3982	papaveris, Timaspis (see Aylax papaveris)
in Mali 3328	in Switzerland 1456, 2940, 5589	Papaw (see Carica papaya)
Panicum maximum	in Taiwan 949	Papaw ringspot virus
Aeneolamia spp. on, damage caused by	in UK 1451	in
2308	in USA 376, 954, 1976, 3458, 3994,	Carica papaya, in Taiwan 1998
Rubroscirus africanus on, in southern	4549, 4552, 4908, 6238, 6468	Myzus persicae, transmission of 199
Africa 5	in Venezuela 6475	Papaya (see Carica papaya)
Panicum repens, Baliothrips biformis on, in	life history of 4549	Paper, Lepisma saccharina in, in Bermuda
Kerala 3923	mortality in 386	3837

mortality in 386

Subject Index		1063
Papilio	Paracentrobia contd.	Parania prima
control of	parasitising, Nephotettix spp., in Thailand	sp. nov., description of 4460
biological 5626 collecting larvae for 5626	911 Parachlor (see DDT, with parathion-	parasitising, <i>Heliothis armigera</i> , in Africa 4460
on Citrus, in India 5626	methyl)	Paranthrene pellucida
on Rutaceae, in Ghana 5360	Paraclemensia acerifoliella	sp. nov., description of 3077
Papilio cresphontes in USA 1064	control of, insecticides for 4105 in USA 4105	attractants for 3077 in USA 3077
on Choisya dumosa, in Texas 1064	on Acer saccharum, in Vermont 4105	on Quercus palustris
Papilio demoleus biology of 5360	Paracletus cimiciformis	in Connecticut 3077
in Ghana 5360	in USSR 3376 on grain crops, in Kazakhstan 3376	in Ohio 3077 on Quercus velutina, in Wisconsin 3077
in India 1287	parasites of, in Kazakhstan 3376	Paranthrene simulans
in Qatar 6128 larvae of, distinguishing sexes of 4744	Paracletus portschinskyi (see P.	attractants for 3077
migration in 1287	cimiciformis) Paraclytus, compound eyes in 715	in USA 3077 seasonal abundance of 3077
on Citrus in Ghana 5360	paraconfusus, Ips	taxonomy of, characters distinguishing P.
in Qatar 6128	Paradiplosis tumifex	pellucida and 3077
pupae of, distinguishing sexes of 4744	in USA 1099 on Abies balsamea 1100	Paranthrene tabaniformis attractants for 6212
Papilio demoleus malayanus in Malaysia 404	in Maine 1099	in Netherlands 5772
on lime (Citrus), in West Malaysia 404	parasites of 1100	on Populus, in Netherlands 5772
parasites of, in West Malaysia 404	parasitised by	Paraoxon (diethyl 4-nitrophenyl phosphate)
Papilio machaon control of, insecticides for 2504	Pseudencyrtus borealis, in Maine 1099 Tetrastichus cecidivorus, in Maine	in Myzus persicae, resistance to 1694 in orange groves, residues of 973
diapause in, oxygen consumption during	1099_	in Trichoplusia ni, inhibiting juvenile
1797 in Bulgaria 2504	paradoxalis, Eremotermes Paradoxiphis, on Bolboceratini, in Australia	hormone esterase 2194 Parapolybia, in Nepal 2167
on fennel, in Bulgaria 2504	5290	Paraquat (1,1'-dimethyl-4,4'-bipyridinium)
Papilio polytes	Paraffin, portable spraying device for 2277	for removing vegetation before sowing
in Nepal 4291 on Murraya koenigii, in Nepal 4291	Paraffin oils, against, Callosobruchus maculatus, in Cicer arietinum seeds	insecticide-treated seeds 5865 in <i>Pinus</i> , for stimulating oleoresin
population dynamics of 4291	4132	production 5181
Papilio polyxenes, food-plants of, seasonal	Paraguay 2804 2820 4420	in Pinus elliottii, effects on Scolytidae of
utilisation of 6258 Papilio protenor demetrius	Acromyrmex spp. in 2804, 3839, 4430 Atta spp. in 2804, 3839, 4430	5744 Parasarcophaga knabi
development in 4282	A. sexdens in 2232	control of, repellents for 2846
diapause in 2731, 4282 in Japan 2731, 4282, 4562	A. vollenweideri in, in pastures 1420, 4527	in India 2846
on Citrus, in Japan 4562	Hypogeococcus festerianus in, on	parasitising, Antheraea spp. 2846 Parasarcophaga uliginosa (see Sarcophaga
osmeterial secretions in 4234	Eriocereus 2857	uliginosa)
oviposition sites of 4562 pupae of, effects of plant constituents on	Isoptera in, natural enemies of 4969 Odontomachus chelifer in 4969	Paraseiulella elliptica, in USA 3061, 3062 Paraseiulus minutus
colour of 1826	Paragus indicus (see P. tibialis)	sp. nov., description of 2051
Papilio protenor liukiuensis	Paragus rufiventris (see P. tibialis	in France 2051
development in 4282 diapause in 2731, 4282	rufiventris) Paragus serratus	in Eriophyid galls, in France 2051 Paraseiulus ostiolatus
in Japan 2731, 4282	in India 290	sp. nov., description of 2051
Papilio xuthus dispersal of 277	preying on, <i>Melanaphis sacchari</i> , in Uttar Pradesh 290	in France 2051 Parasetigena agilis (see also Parasetigena
in Japan 277, 4829, 6485, 6486	Paragus tibialis	silvestris)
on Citrus	in India 290	attack behaviour in 518
in Japan 6485 in Kyushu 6486	in Poland 2438 preying on	in USA 518 parasitising, <i>Lymantria dispar</i> , in
on Zanthoxylum ailanthoides	Aphididae, in Poland 2438	Connecticut 518
in Honshu 277	Melanaphis sacchari, in Uttar Pradesh 290	Parasetigena silvestris (see also Parasetigen agilis)
oviposition by 4829 predators of, in Japan 6485	Paragus tibialis rufiventris	in Poland 3592
preyed on by	in India 290	in USA 2566, 3100
Polistes chinensis, in Kyushu 6486 P. jadwigae, in Kyushu 6486	preying on, <i>Melanaphis sacchari</i> , in Uttar Pradesh 290	in oak woodland, effects of insecticides of 3100
Papilionidae	Parahormius pallidipes	parasitising
food-plant growth form as affecting 4283	in USA 2501 parasitising, Keiferia lycopersicella, in	Lymantria dispar in New Jersey 3100
food-plant specificity in, geographical variation in 1248	California 2501	in Pennsylvania 2566
in Spain 5412	Paralauterborniella	in Poland 3592
on leaves, effects of leaf-water supplementation on 88	on rice, in California 5556 preyed on by, Hydrophilidae, in California	Orgyia antiqua, in Poland 3592 preyed on by, Procyon lotor, in
papilionis, Ooencyrtus	5556	Pennsylvania 2566
Papilionoidea, in Finland 5411	Paralipsa gularis	Parasierola nephantidis diflubenzuron in, effects of 4542
papillosa, Tessaratoma Papua New Guinea	in India 4493 in stored tamarind pods, in India 4493	in India 4542
Andaspis numerata in 6583	Paralitomastix varicornis	oviposition in 1881
Apis mellifera in, natural enemies of 4439	in Senegal 258 in South Africa 258	parasitising Corcyra cephalonica 1881
biological control in 4696	parasitising, Sylepta derogata, in Senegal	Nephantis serinopa 1434, 1881, 2934
Caenoblissus pilosus in, on rice 903	258	in Tamil Nadu 4542
Chalcidoidea in 4462 Colydiidae in 6614, 6615	parallela, Cyclocephala parallelepipedus, Cossonus	parasitism by unmated females of 1434 Parasite-host interactions
Leptocorisa spp. in 1402	parallelus, Scoloposcelis	depression of host populations 6304
Locusta migratoria in 4421, 4422	Parametriotes, taxonomy of, synonym of Tetanocentria 5286	interspecific competition among parasites 833
Nilaparvata lugens in, on rice 2381 Ostrinia furnacalis in, on maize 5533	Parametriotes theae, taxonomy of,	parasite optimal foraging model 110
Pachygastrinae in 6625	transferred to Tetanocentria 5286	searching area and host discovery 309
Pantorhytes spp. in 1053 P. pseudocarbonarius in, on cacao 1053	Paramyelois transitella (see Amyelois transitella)	searching behaviour as affected by host density 259
Perkinsiella spp. in 707	Paranagrus perforator (see Anagrus	trophic connectance and stability of mod
Pseudococcidae in, on rice 903	perforator)	ecosystems 562 Parasites, genetic improvement of 4805
papuensis, Perkinsiella Papyrus (see Cyperus papyrus)	paranensis, Schistocerca (see S. cancellata) Paraneotermes simplicicornis, uric acid in	Parasitica, in North America, book 3309
Paracentrobia	4223	parasitica, Sturmiopsis
in rice-fields, in Thailand 2370	paranerii, Aspidiotus	Parasitism, book 1301

```
Parasitorhabditis, in, Sesamia inferens, in
                                                                                     Parathion contd.
                                                                                                                                                                           Parathion-methyl contd.
                                                                                          in Spodoptera littoralis, effects on egg
      Orissa 4515
                                                                                                                                                                               against contd.
  arastasiae, Microscolia
                                                                                                respiration of 6727
                                                                                                                                                                                   Phyllocnistis citrella, on Citrus 2968
                                                                                         in Spodoptera litura, sub-lethal effects of 5977
Paratanytarsus
                                                                                                                                                                                   Piezodorus guildinii 1698
    on rice, in California 5556
                                                                                                                                                                                    Schizaphis graminum, on rice
   preyed on by, Hydrophilidae, in California
5556
                                                                                                                                                                                   Spodoptera frugiperda 2310
                                                                                          in tobacco, residues of 5728
                                                                                         photodegradation of 3201 resistance to, in
                                                                                                                                                                                   S. littoralis, on cotton 3820
Tribolium castaneum 5810
Paratenodera aridifolia (see Tenodera
Paratheresia claripalpis
in Brazil 289
intraspecific competition in 2356
parasitising
                                                                                        Aonidiella aurantu
and cross-resistance 4568
in South Africa 4568
with Beauveria bassiana, against,
Leptinotarsa decemlineata 5861
with chlorobenzilate, against, Brevipalpus
californicus, on Citrus 983
with dicofol, against, Brevipalpus
californicus, on Citrus 983
                                                                                              Aonidiella aurantii
                                                                                                                                                                               formulations of, microencapsulated 3660
                                                                                                                                                                                     3820
                                                                                                                                                                               in Apis mellifera, toxicity of 3718
in cauliflower, residues of 5268
in Coccinella septempunctata, toxicity of
                                                                                                                                                                                     1712
       Diatraea saccharalis 2356
           and biological control using, in
Colombia 5517
                                                                                                                                                                               in Corcyra cephalonica, effects on parasites of 2343
       in Brazil 289
Eldana saccharina, and biological
                                                                                                                                                                               in cotton, effects of toxaphene on
                                                                                          with endrin
                                                                                                                                                                                     persistence of 648
             control using, in South Africa
                                                                                                                                                                               in lucerne fields, effects on parasitic insects of 356
                                                                                              against
              1376
                                                                                                 Orseolia oryzae, on rice 2379
                                                                                          Scirpophaga incertulas, on rice 2379
with HCH, against, Pyrausta machaeralis,
on Tectona 1579
Parathion (O,O-diethyl O-(4-nitrophenyl)
                                                                                                                                                                               in Pentatomidae, developmental changes
                                                                                                                                                                               in susceptibility to 4586 in radish, residues of 5268
      phosphorothioate)
    against
        Achaea janata, on castor 3033
                                                                                          with malathion
                                                                                                                                                                               in rice, stimulating reproduction by
       Acrocercops phaeospora, on Eugenia jambolana 2459
                                                                                              against
                                                                                                                                                                               Nilaparvata lugens 3928 in rice-fields, causing outbreaks of
                                                                                                 Leucinodes orbonalis, on eggplant
                                                                                                                                                                               Nilaparvata lugens 3389
in soyabean fields, effects on predatory
insects of 4586
       Agriotes spp., on potato 1022
Agrotis segetum, on root crops 6531
                                                                                                       5705
                                                                                                  Tribolium castaneum 3220
       Anthonomus signatus, on strawberry 364, 366
                                                                                         with mevinphos
                                                                                                                                                                               in tomato, residues of 5702
                                                                                              against
       Anticarsia gemmatalis 672
Aonidiella aurantii, on Citrus 981
Aphis citricola, on grapevine 941
Asterolecanium pustulans, on fig 440
Bemisia tabaci, on tomato 5703
Blissus leucopterus, on sorghum 6169
Byctiscus betulae, on grapevine 2941
Carpomyia vesuviana 6477
                                                                                                                                                                               in Trichogramma brasiliensis, toxicity of
                                                                                         Archips rosanus, on apple 4551
Pandemis cerasana, on apple 4551
with oil emulsion
                                                                                                                                                                                     2343
                                                                                                                                                                               in Trichogramma embryophagum, toxicity of 1706
                                                                                             against
                                                                                                 Aphis pomi, on apple 6467
Asterolecanium pustulans, on fig
                                                                                                                                                                               resistance to, in
                                                                                                                                                                                   Heliothis virescens, role of enzymes in
                                                                  6169
                                                                                                       4400
                                                                                                                                                                                         6087
                                                                                                 Brevipalpus californicus, on Citrus
978
                                                                                                                                                                                   Spodoptera littoralis, in Egypt 486
Tetranychus urticae 6716
        Cnephasia pasiuana, on grain crops 5026
                                                                                                 Gilletteella coweni, on Pseudotsuga
                                                                                                                                                                               with Beauveria bassiana, against,
            pumicana, on grain crops 4502
                                                                                                       3072
                                                                                                                                                                                     Leptinotarsa decemlineata
        Coptotermes formosanus, in pine wood
                                                                                                 Hemiberlesia lataniae, on fig 4400
Planococcus citri, on Citrus 5636
                                                                                                                                                                               with DDT
             5487
                                                                                                                                                                                   against
        Dialeurodes citri, on Citrus 2968
                                                                                                 Spodoptera littoralis, on Citrus
                                                                                                                                                                                       Amsacta albistriga, on groundnut
       Dichocrocis punctiferalis, on castor
                                                                                                  Tetranychus urticae, on Citrus 977
                                                                                                                                                                                            6527
             2506
                                                                                          with parathion-methyl
                                                                                                                                                                                        Leptinotarsa decemlineata, on potato
       Dicladispa armigera, on rice 6373
Graphognathus peregrinus 2639
Heliothis zea 660
Hemiberlesia lataniae, on fig 4400
Heterotermes indicola, in pine wood
                                                                                              against, Spodoptera littoralis, on cotton
                                                                                                                                                                                             5700
                                                                                                                                                                                     groavailability of 5700
                                                                                                                                                                               with DDT, and toxaphene against, Earias insulana, on cotton
                                                                                              formulations of, microencapsulated
                                                                                                   3820
                                                                                     Parathion-methyl (O,O-dimethyl O-(4-nitrophenyl) phosphorothioate)
                                                                                                                                                                                        4384
             5487
                                                                                                                                                                                   in cotton fields, non-target effects of
       Leucinodes orbonalis, on eggplant
                                                                                                                                                                                         4384
                                                                                         against
                                                                                             Anthonomus grandis, on cotton 5125
A. pomorum, on apple 6465
Anticarsia gemmatalis 672
Aphis citricola, on grapevine 941
Austroasca alfalfae, on lucerne 3447
A. viridigrisea, on lucerne 3447
Bemisia tabaci, on tomato 5703
             5705
                                                                                                                                                                               with fertilizers 6694
with herbicides 2867
       Lygus lineolaris, on strawberry 364,
                                                                                                                                                                               with oil emulsion
        Mericserica oberthuri, on coffee 6580
                                                                                                                                                                                   against
        Mythimna unipuncta 4928
                                                                                                                                                                                       Conopia myopaeformis, on apple 6466
        Nisaga simplex, on rice 6418
        Phyllocnistis citrella, on Citrus
                                                                                                                                                                                       Enarmonia formosana, on apple
                                                                                              Blissus leucopterus, on sorghum 6169
        Prays citri, on Citrus 5637
       Pseudonapomyza gujaratica 6.
Pterochloroides persicae 5614
Rhinyptia laeviceps 5263
                                                                                              Chilo suppressalis 1148
Cnaphalocrocis medinalis, on rice
3926, 3942, 5557
                                                                                                                                                                               with parathion
                                                                                                                                                                                   against, Spodoptera littoralis, on cotton
   Rhinyptia laeviceps 5263
Spodoptera frugiperda 5265
S. litura 3222
on cauliflower 2473
on tobacco 3050
Thrips tabaci, on onion 5697
Tribolium castaneum 5810
formulations of, spray adjuvants for in aerial sprays, exposure of air and ground crews to 4710
in Bracon hebetor, toxicity of 3814
in cauliflower, persistence of 2473
in Chelonus elaeaphilus, toxicity of of citrus groves, non-target effects of 4007
                                                                                                                                                                                        3820
                                                                                              Cnephasia pumicana, on grain crops
4502
                                                                                                                                                                                   formulations of, encapsulated 3820
                                                                                                                                                                               with toxaphene
                                                                                              Cylindrocopturus adspersus, on sunflower 3543
                                                                                                                                                                          Heliothis spp., on cotton 3552
Spodoptera exigua, on cotton 3552
Paratrechina fulva
in Canada 4428
in hothouses, in Manitoba 4428
Paratrechina longicornis
control of, insecticides for 3118
in food factories 3118
Paratrioza cockerelli
food-plants of 1838
in USA 1838
in snowfields, in California 1838
Paravespula germanica (see Vespula
                                                                                                                                                                                       Heliothis spp., on cotton 3552
                                                                                             Dacus cucurbitae 1500
Dialeurodes citri, on Citrus 2968
Dicladispa armigera, on rice 6373,
6403
                                                                                             Diuraphis noxia, on wheat 3375
Edwardsiana iranicola, on Platanus
                                                                                                   6607
                                                                                             Eurygaster integriceps, on wheat 6
Haplothrips tritici, on wheat 3375
Hemiberlesia rapax, on Actinidia
chinensis 5883
                                                                   3814
                                                                                                                                                        6694
         4007
    in Coccinella septempunctata, toxicity of
                                                                                              Hypera postica, on lucerne 356
Lygus lineolaris, on strawberry
          1712
                                                                                                                                                                           Paravespula germanica (see Vespula
   in Dysdercus koenigii, effects on lipids in
                                                                                                                                                                                germanica)
                                                                                                                                                                          germanica)

Paravespula vulgaris (see Vespula vulgaris)

Pardalaspis cosyra

biology of 5644
control of 5644
in Kenya 5644
on guava, in Kenya 5644
on sour orange, in Kenya 5644
pardalina, Locustana
pardalina, Myiopardalis

Pardia cynosbatella (see Epiblema
cynosbatella)
   neurosecretory system of 5976
in environment, degradation of 3203
in flooded soil, role of hydrogen sulfide in
degradation of 2147
                                                                                             Macrodactylus subspinosus, on
grapevine 3457
Myllocerus discolor 3048
                                                                                              Mythimna separata, on rice
Nezara viridula 1698
  degradation of 2147
in foodstuffs, residues of 3210
in orange groves, residues of 973
in pine wood, persistence of 5487
in Rhinyptia laeviceps, sex differences in susceptibility to 5263
in Rhopalosiphum maidis, not affecting hemocytes 2696
in soil, adsorption of 1161
                                                                                              Nilaparvata lugens 3397
on rice 3395
                                                                                              Orgyia gonostigma, on fruit trees 3464
Pectinophora gossypiella, on cotton
5125
                                                                                             Pentatomidae, on soyabean pests of grain crops 2867
                                                                                                                                              4586
   in soil, adsorption of 1161
```

'ardosa nebraska	Parthenolecanium corni	Pastures contd.
in Canada 299	biology of 1973	Chortoicetes terminifera in contd.
in wheat fields, in Saskatchewan 299	control of 1973	collection of insecticides by 4529
seasonal abundance of 299	in Poland 3982	effects of quality on 6274
Parechthrodryinus, parasitising, Cerococcus	in USSR 1556, 1973	in New South Wales 5458, 6279
ornatus, in Tamil Nadu 6577	on fruit trees, in Caucasus 1973	Costelytra zealandica in
Parechthrodryinus clavicornis 6577	on ornamental shrubs, in USSR 1556	assessing infestations of 5878
Parena nigrolineata	Parthenolecanium takachihoi	damage caused by, models of 1949
in India 1478	in USSR 12	effects of ploughing on 1422
preying on, Nephopterix eugraphella, in	on Quercus mongolica, in Maritime	in New Zealand 350, 5873, 5874,
Punjab 1478	Territory 12	5875, 5876
arenthesis, Hippodamia	parasitised by, Metaphycus maritimus, in	Eudonia sabulosella in, in New Zealand
ariana, Eutromula	Maritime Territory 12	5867
arietina, Oxyna	Parus atricapillus	Heteronychus arator in
ark plants, insect pests of, in Yugoslavia	Lymantria dispar nuclear polyhedrosis	assessing infestations of 5884
2078	virus in, no effects from 615	in New South Wales 1424
arks, Carabidae in, in West Germany	preying on, Lymantria dispar 615	in New Zealand 350
2745	Parus gambeli, preying on, Orgyia	Inopus rubriceps in
Parlatoria oleae	pseudotsugata 2560	effects of stocking density on 2920,
biology of 3799	parviceps, Tytthus	5887
	parvicornis, Toumeyella	in New Zealand 5870
	Parvoviridae, in, Bombyx mori,	Loxostege sticticalis in, in Romania 6700
food-plants of 3799	characterisation of 6674	Mocis spp. in, in Florida 4532
in Greece 3799	parvula, Tamaricella	Mythimna convecta in, in New South
in USA 406	parvulus, Longitarsus	Wales 927
on olive	parvulus, Pediobius	Noctuidae in, in Queensland 2671
in California 406	parvulus, Pseudococcus	pest control in
in Greece 3799	parvus, Nephotettix	biological 5930, 5951
in Mediterranean region 3506	pasiuana, Cnephasia	integrated 350
on plum, in Greece 3799	Paspalum	use of radar in 1278
parasites of, in Greece 3799	Orseolia oryzae on, in Thailand 2909	Pyronota spp. in, in New Zealand 5871
predators of, in Greece 3799	Recilia mica on, in Ivory Coast 2937	Saltatoria in, in Saskatchewan 929
Parlatoria ziziphus	Paspalum distichum, Dicladispa armigera	Scarabaeidae in, in Georgia (USSR)
biology of 4334	on, in Punjab 2375	5577
in Brazil 2980	Paspalum orbiculare, Diopsis	Sminthurus viridis in, in New Zealand
in Egypt 4333, 4334	macrophthalma on, in Nigeria 3973	5868
on Citrus, in Brazil 2980	Paspalum scrobiculatum, Baliothrips	Solenopsis invicta in, interactions with
on mandarin, in Egypt 4334	biformis on, in West Bengal 3391	other ants of 2324
on orange, in Egypt 4333	Passer domesticus	Spodoptera exempta in, in Kenya 4496
seasonal abundance of 4333	Lymantria dispar nuclear polyhedrosis	S. mauritia in, in New South Wales 927
Parnara guttata	virus in, no effects from 615	Teleogryllus commodus in, damage caused
in China 4993	preying on, Lymantria dispar 615	by 3979
parasitised by, <i>Telenomus parnarae</i> , in China 4993	Passer montanus, preying on, Malacosoma	Wiseana spp. in
	neustria, in Japan 1296	damage caused by, models of 1949 in New Zealand 350, 5866
Parnara guttata guttata	Passiflora, Scolypopa australis on, in New South Wales 3248	
rearing of, techniques for 1404	Passiflora alata	Patanga, taxonomy of, synonym of Cyrtacanthacris 233
seasonal polymorphism in 1299	Anisoscelis foliacea on, in Brazil 187	Patanga succincta (see Cyrtacanthacris
Parnara mathias (see Pelopidas mathias)		
arnarae, Eupteromalus arnarae, Telenomus	Holymenia clavigera on, in Brazil .187 Passiflora edulis (see Passion fruit)	succincta) Patasson lameerei
Paroigolaimella coprophages, in,	Passion fruit (Passiflora edulis)	development in, effects of temperature on
Schistocerca gregaria, pathogenicity of	Dacus tryoni on, in Queensland 3511	6242
5454	Planococcus citri on, in Queensland	host age as affecting 6242
aropsis, on Eucalyptus, in Tasmania 2591	3510, 3511	parasitising, Sitona hispidulus 6242
Paropsis atomaria, on Eucalyptus, not	Passion-fruit orchards, predatory insects in,	Patasson nitens
affected by oil content 6634	effects of insecticides on 3511	development in 6588
Paroxyna lingens	Passion fruit (stored fruit), fumigants in,	in Australia 6587
in Turkey 1311	residues of 1121	in South Africa 6587
on Xanthium spinosum, in Turkey 1311	Passionflower (see Passion fruit)	parasitising
arsley (Petroselinum crispum)	Pastinaca sativa (see Parsnip)	Gonipterus scutellatus
Cavariella aegopodii on, in UK 5110	pastinacae, Cavariella	and biological control using 2081
arsley (stored roots), Sphaericus gibboides	Pasture grasses, Costelytra zealandica on,	in Italy 6587, 6588
in, development of 4675	damage caused by 5872	rearing of, techniques for 6588
arsnip (Pastinaca sativa)	Pasture management	patchiae, Eriosoma
Cavariella aegopodii on, in UK 5110	invertebrates as affected by 3431, 3437	Patelloa pachypyga
arsnip yellow fleck virus	role in pest control of 5865	in USA 2568
in	Pasture plants	parasitising, Malacosoma disstria, in
Cavariella aegopodii, transmission of	arthropod pests of, in New South Wales	Minnesota 2568
2105	2161	Patelloa similis
Heracleum sphondylium, in Scotland	pest control on, pesticides for 1687	in Brazil 1908
600, 601	Pasture soils, disappearance of cattle dung	parasitising, Trachea anguliplaga, in Brazi
artellus, Chilo	as affected by 3428	1908
arthenica, Coleophora	Pastures	Paterson's curse (see Echium plantagineum)
arthenii, Aceria (Eriophyes)	Acari in, in Irish Republic 3425	Pathogens, genetic improvement of 4807,
arthenii, Eriophyes (see Aceria parthenii)	Aeneolamia varia in, in Colombia 6432	4813
arthenin	Aphodius rufipes in, removal of cattle	patialensis, Caryedon
antifeedant activity of 3878	dung by 1944	Patna rhizolineata
in Parthenium hysterophorus 3878	A. tasmaniae in, in New South Wales	sp. nov., description of 6430
insecticidal activity of 3878	1948	in Pakistan 6430
Parthenium confertum, Smicronyx lutulentus	arthropod pests of	on Sorghum halepense, in Pakistan 6430
on 1664	in Tasmania 5416	patruelis, Hilda Patulin (see AH Eurol 3 2 clayren-2(6H) one
Parthenium hysterophorus	in Zimbabwe 4720	Patulin (see 4H-Furo[3,2-c]pyran-2(6H)-one
Aceria parthenii on, in Mexico 1664	arthropods in	4-hydroxy-)
antifeedant activity of extracts of 3878	effects of grazing on 3435	Pauesia juniperina
Brevipalpus phoenicis on, damage caused	in Irish Republic 3436	sp. nov., description of 1177
by 1364	Atta vollenweideri in	in USSR 1177
control of, biological 5945	damage caused by 1420	parasitising, <i>Cinara juniperi</i> , in Tadzhikistan 1177
insecticidal activity of extracts of 3878	in Paraguay 4527	Pauesia pini
Ophraella spp. on, in Mexico 1664	Brachycera in, succession of 3432	in Mongolia 3348
Planococcus spp. on, damage caused by	Cerapteryx graminis in, in Newfoundland	in North Korea 3347
2852	928 Chartoicetes terminifera in	Paulownia imperialis, Empoasca vitis on, in
Smicronyx lutulentus on, in Mexico	Chortoicetes terminifera in	Czechoslovakia 5200
1664	assessing infestations of 6276	SECTION TAKES OF THE PROPERTY

```
Paulownia tomentosa (see P. imperialis)
                                                                                         Peach contd.
                                                                                                                                                                                   Pear contd.
pauperans, Odontotermes
                                                                                              Euzophera bigella on, in Italy 6459
Pauridia peregrina, insecticides in, toxicity of 5631
                                                                                              Hyalopterus pruni on, in France 5076
                                                                                                                                                                                             5066
                                                                                              Hysteroneura setariae on, in Taiwan
                                                                                                    3316
pauxillus, Rhynchites
Pawpaw (see Carica papaya)
                                                                                              insect pests of, in Himachal Pradesh
Paxylommatinae, venom apparatus in 2672
PCP (see Phenol, pentachloro-)
                                                                                                    2436
                                                                                              leaf hoppers on, in Florida 2448
PD-5 (see Mevinphos)
Pe-tsai (Brassica pekinensis) (see Cabbage,
                                                                                              Lepidosaphes malicola on, in Armenia
                                                                                                    2948
      Chinese)
                                                                                              Myzus persicae on
Pea (Pisum sativum)
                                                                                                 damage caused by
in Bulgaria 1462
                                                                                                                                     4554
    Acyrthosiphon pisum on, damage caused by 4584
                                                                                                                                                                                             2948
                                                                                                 in Italy 6457
in Japan 4733
in New South Wales
    arthropod pests of
in Egypt 4357
in Finland 1903, 4476
                                                                                                                                                                                             of 935
                                                                                                                                         1695
                                                                                                 in Washington 4590
    Bruchus pisorum on
parasitism of 3524
varietal preferences of 3523, 3524
                                                                                                 resistance to 6473
                                                                                              M. varians on
                                                                                                 damage caused by 4554 resistance to 5076, 6473
    Contarinia pisi on, damage caused by
          1508
                                                                                              Oligonychus mangiferus on, development
     Curculionidae on, in UK 425
    Cydia nigricana on the A23
Cydia nigricana on forecasting infestations of 2652
in England 4176
Diacrisia obliqua on 2737
endosulfan in, residues of 6512
Heliothis armigera on, development of
                                                                                                    of 935
                                                                                             Pandemis heparana on, in Italy 5617
Panonychus ulmi on, in Venezuela 6475
pest control on 2433
insecticides for 1695
integrated 3487
pesticides for 6441
relation of spray coverage and 3998
plum pox virus in, in UK 5611
Pandemic programs on in Elevido.
    insect pests of
        in France 3002, 5668 in Poland 3519
                                                                                              Pseudaulacaspis pentagona on, in Florida
                                                                                                                                                                                             2958
    Kakothrips pisivorus on, damage caused by 5670
                                                                                                    4555
                                                                                             4555
Pterochloroides persicae on in Italy 1972, 5614 in Punjab 398
Quadraspidiotus perniciosus on, in California 2434
Resseliella oculiperda on 5066
Synanthedon exitiosa on, assessing infestations of 395
    legume yellows virus in, infectivity of 3003
    monocrotophos in, residues of 6512
   monocrotopnos in, residues of 6512
nicotine in, toxicity of 5258
pea enation mosaic virus in, aphid
transmission of 4583
pest control on 5668
insecticides for 3002
Phyllotreta undulata on, feeding by
Phytomyza horticola on, in Honshu
Sitona spp. on, in UK 6736
S. lineatus on
                                                                                             S. pictipes on
in Georgia (USA) 1461
in Indiana 3484, 6237
                                                                                              Taeniothrips spp. on, in Himachal
Pradesh 5070
    S. lineatus on
        development of 4579
in Idaho 4582
in USA 4580
in Washington 4582
                                                                                               Tenuipalpus taonicus on, in China 6442
                                                                                              Tetranychus urticae on
                                                                                         retranyenus urticae on
in Egypt 971
in Victoria 6460

Peach orchards, Coniopterygidae in, in
Hungary 3467
Peach phony disease, causal agent, vectors
of 2448, 6669
Peach X-disease
causal agent
                                                                                                                                                                                             2434
    subterranean clover red leaf virus in,
symptoms of 1504
Thrips angusticeps on, damage caused by
5670
                                                                                                                                                                                             4343
Pea, chick (see Cicer arietinum)
Pea, cow (see Vigna unguiculata)
Pea enation mosaic virus
aphid transmission of 5437
                                                                                              causal agent
                                                                                                 in
                                                                                                     Acinopterus angulatus, transmission
of 2101
Scaphytopius nitridus, transmission of
2101
                                                                                                                                                                                                 3483
        Acyrthosiphon pisum
             not transmitted 4583
transmission of 4583
                                                                                         Pealius quercus
in Netherlands 3829
on forest trees, in Netherlands 3829
Peanut (see Groundnut)
                                                                                                                                                                                             5065
ransmission of 4583
pea, aphid transmission of 4583
Pea, grass (see Lathyrus sativus)
Pea, pigeon (see Cajanus cajan)
Pea, southern (see Vigna unguiculata)
Pea (stored seeds), Zabrotes subfasciatus in, in India 3680
Peach (Persususia)
                                                                                          Peanut mottle virus (see Groundnut mottle
                                                                                                virus)
                                                                                          Pear (Pyrus communis)
                                                                                                                                                                                             1982
Peach (Prunus persica)
                                                                                              Acanthococcus aceris on, in Iraq 4335
     Aculus cornutus on, in Venezuela 6475
                                                                                              Adoxophyes orana on, in Yugoslavia
    Adoxophyes orana on, in Yugoslavia 5068
                                                                                              Aphanostigma piri on, in France
Aphidoidea on, in France 5601
    Anarsia lineatella on forecasting infestations of 5615 in West Germany 1986 Aphidoidea on, effects of 2437 Ceratitis capitata on, in Ukraine 5595 Cryptophlebia leucotreta on, in South Africa 6444
                                                                                                                                                                                             3483
                                                                                             arthropod pests of, effects of pesticides on 209
                                                                                              Bryobia rubrioculus on, in UK 1451
Bucculatrix pyrivorella on, in Japan
                                                                                                                                                                                             6456
                                                                                                    3482
                                                                                             Cacopsylla pyri on, in Turkey 1310
Caliroa cerasi on, in Lithuania 5396
Ceratitis capitata on, in Ukraine 559
Coleophora spp. on, in Poland 2952
Coleoptera on, in USSR 5064
    Cydia funebrana on, in Czechoslovakia 3235
                                                                                                                                                          5595
    C. molesta on
        forecasting infestations of 394, 5615,
                                                                                              Contarinia pyrivora on, damage caused by
        in Czechoslovakia 3235, 5613
                                                                                                    5066
        in Georgia (USA)
in Georgia (USSR)
in Ontario 3486
in Spain 2967
                                                                                              Cydia pomonella on
                                              2966
                                                                                                  effects of sprinkler irrigation on 5609
                                                                                                 in California 2435
in Oregon 3483
in Washington 392
    Eutetranychus orientalis on
in Haryana 267
in Madhya Pradesh 4295
                                                                                                  varietal preferences of 968
                                                                                              C. pyrivora on, in Austria 1755, 1756
```

Dasineura pyri on, damage caused by Dasychira mendosa on, in Punjab 2419 Epitrimerus pyri on effects of sprinkler irrigation on 5609 in Nova Scotia 969 Euzophera bigella on, in Italy 6459 insect pests of in Himachal Pradesh 2436 in Italy 6457
Lepidosaphes malicola on, in Armenia Oligonychus mangiferus on, development Pandemis heparana on, in British Columbia 950 Panonychus citri on, in Japan 6472 pest control on 2433 biological 5950 in USSR 2945 integrated 209, 1450 tetranactin for timing of 906 winter treatments for 29 ment on 2932 timing of 968 pest management on 2932 economics of 5892 Physatocheila confinis on, in Czechoslovakia 4648 Phytoptus nalepi on, in Egypt 1769 Pseudococcus spp. on, in South Africa Psylla spp. on, in Tadzhikistan 2760 Psylla spp. on, in Tadzhikistan 2760
P. pyri on
in France 5607
in Italy 1450, 6469
in Netherlands 966
in Switzerland 1982
P. pyricola on
damage caused by 5067
effects of sprinkler irrigation on 5609
in Czechoslovakia 4649
in Ontario 5074
in Oregon 3483
in Pennsylvania 4888
P. pyrisuga on, in Austria 1755 P. pyrisuga on, in Austria 1755
P. vasilievi on, in Czechoslovakia 4
Psylloidea on, in British Isles 6029 Quadraspidiotus perniciosus on, in Oregon Resseliella oculiperda on, damage caused by 5066
Stephanitis pyri on, distribution pattern of Tetranychus urticae on effects of sprinkler irrigation on 5609 not affected by insect growth regulators Thrips flavus on, in Himachal Pradesh 5070 Yponomeuta malinellus on, in France Y. padellus on, in Tadzhikistan 1600 Pear, avocado (see Avocado) Pear, Japanese (see Pyrus pyrifolia)
Pear orchards Anthocoris nemoralis in, in Switzerland azinphos-methyl in, non-target effects of 3483 Coniopterygidae in, in Hungary 3467 diflubenzuron in, non-target effects of Pecan (Carya illinoensis)
Acrobasis nuxvorella on, damage caused by 373
Conotrachelus pecanae on, in Oklahoma Curculio caryae on urculio caryae on
assessing infestations of 3462
in Arkansas 947
in Oklahoma 2782
nut cluster size not affecting 19
redia caryana on, in Texas 3993 Cydia caryana on, in Texas

Datana integerrima on

damage caused by 1447

in USA 6223 Eotetranychus hicoriae on assessing infestations of development of 2432 Monellia caryella on, in Mississippi M. nigropunctata on, in Mississippi 2943 2943

Subject Index		1071
Pecan contd.	Pectinophora gossypiella contd.	Pegomya hyoscyami contd.
pest control on, insecticide application	on cotton contd.	on sugar-beet contd.
methods for 2943	interactions of carbohydrate balance	in Europe 1523
pest management on 2932 Pecan orchards, Phytoseiidae in, sampling of	and 2040	in Finland 4591
5062	resistance to 2524, 5726 varietal preferences of 2532	in Poland 1871 oviposition in, on damaged plants 211
pecanae, Conotrachelus	on okra, in St. Vincent 5121	Pelargonium, Rhizoecus hibisci on, damage
Pectin, in grain crops, relation of Oulema	parasites of, overwintering of 2549	caused by 1060
melanopus susceptibility and 6157	parasitised by, Apanteles quadratus, in	Pelargonium grandiflorum, Tetranychus
Pectinariophyes stalii in Australia 2579	Pakistan 1950 population dynamics of, models of 3043	urticae on, in Egypt 2048
life history of 2579	proteins in, developmental changes in	Pelargonium zonale, Tetranychus urticae on in Egypt 2048
on Eucalyptus, feeding by 2579	4779	Pelecinus polyturator
pectinatae, Adelges (Aphrastasia)	purple eye mutant of 60	in Canada 6303
pectinatae, Aphrastasia (see Adelges pectinatae)	reproduction in 3548 seasonal abundance of 495, 1547, 1647	parasitising, <i>Phyllophaga anxia</i> , in Quebe 6303
Pectinophora gossypiella	sex pheromone of, responses to mixtures	peliococci, Tetracnemus
attractants for 4072, 5273, 6560, 6562	of isomers of 4072	Peliococcus mesasiaticus
Bacillus cereus in, pathogenicity of 603 B. polymyxa in, pathogenicity of 603	sooty body mutant of 60 sooty mutant of 6101	in USSR 4981
control of 1276, 1552	sperm in, effects of γ -irradiation on 75	on Zygophyllum atriplicoides, in Turkmenia 4981
biological 603, 2549, 3556	sterilisation of	parasitised by, Encyrtidae, in Turkmenia
cultural 491	γ-irradiation for 3043	4981
models of 3044 evaluating of 222, 3816	review 493 traps for 495, 1038, 2529, 4070, 6560	pellionella, Tinea pellucida, Camnula
growth regulators for 227	Pectinophora scutigera, cross-mating of,	pellucida, Delphacodes (see Javesella
hand collecting for 5125	with, Pectinophora gossypiella 3553	pellucida)
insecticides for 222, 227, 2529, 2543,	pectoralis, Lemurimyza (Liriomyza)	pellucida, Diaphnocoris
3816, 4068, 4383, 5125, 5126, 6561, 6564	pectoralis, Liriomyza (see Lemurimyza pectoralis)	pellucida, Javesella (Delphacodes) pellucida, Nemoraea
mating disruption for 1038, 1745	pectoratorius, Diplazon	pellucida, Paranthrene
sterile-insect release for 3550	pectorosa, Anyphaena	Pelopidas mathias
models of 3043	pedatus, Laelius	Beauveria brongniartii in, pathogenicity o
timing of 495, 2529, 3044, 6561 traps for 5121	pederosus, Amblyseius pedestris, Riptortus	2614 in India 2905, 5550
cross-mating of, with, Pectinophora	pedestris, Stygnocoris	in Philippines 892
scutigera 3553	pedicularius, Anthonomus	nuclear polyhedrosis virus in, in Orissa
development in, effects of temperature on 6101	Pediculoides ventricosus (see Pyemotes ventricosus)	2905 on rice
diapause in 492, 1548, 4373, 4779, 6219	Pediobius epilachnae (see P. foveolatus)	effects of sowing date on 892
dispersal of 491, 1038, 1274, 1284	Pediobius foveolatus	in Orissa 2905
emergence in, effects of pupation depth on	biology of 3017	varietal preferences of 5550
3291 fatty acid methyl esters in, toxicity of	in India 3017 in USA 4028	Serratia marcescens in, pathogenicity of 2907
5266	parasitised by, Eupteromalus viridescens,	peltatus, Xyletinus
hemolymph in 4372, 4373	in Maryland 4028	Pempherulus affinis
in Argentina 4072	parasitising	control of, insecticides for 2537
in Australia 4072 in Barbados 5121	Epilachna varivestis and biological control using, in	in India 2537 on cotton, in Tamil Nadu 2537
in Bolivia 4072	Indiana 6192	Pemphigidae, in urban areas, in West
in Brazil 4072	in Maryland 4028	Germany 4300
in Colombia 5125	Henosepilachna vigintioctopunctata, in Karnataka 3017	Pemphiginae, in India 1834 Pemphigus betae
in Egypt 222, 227, 3816, 4072, 4383, 5129, 5722	seasonal abundance of 3017	habitat selection in 4093
in India 1547, 1548, 1552, 2039, 2543,	Pediobius furvus	in USA 4093
3037, 3558, 4068, 4072, 5126, 6560,	in Ghana 4497	on Populus angustifolia, in Utah 4093
6561, 6562, 6564 in Mexico 1647	parasitising Eldana saccharina, in Ghana 4497	Pemphigus borealis, in China 2588 Pemphigus bursarius
in Pakistan 495, 1950, 4072	Sesamia spp., in Ghana 4497	in West Germany 2746
in St. Vincent 5121	Pediobius parvulus, parasitising,	on Populus nigra, in West Germany
in USA 483, 491, 492, 1038, 1273, 1274,	Coelaenomenodera elaeidis, and	2746 Pomphimus chomoonsis
1276, 1745, 2522, 2529, 2532, 2533, 2549, 3043, 3044, 3556, 4070, 4072,	biological control using, in Ivory Coast 4544	Pemphigus chomoensis sp. nov., description of 2588
4607, 5715	Pediobius pyrgo	in China 2588
in cottonseed, in Punjab 3037	hyperparasitising	on Populus, in Tibet 2588
in soil, effects of temperature on 4607 inherited sterility in 75	Apanteles spp., in Yugoslavia 5792 Euproctis melania, in Iraq 516	Pemphigus fuscicornis biology of 2022
life-span in, effects of temperature on	Meteorus versicolor, in Yugoslavia	in USSR 2022
1257, 5423	5792	on Chenopodium album, development of
mating competitiveness in, effects of γ-	in Iraq 516 in Yugoslavia 5792	2022 on sugar-beet, development of 2022
irradiation on 3550 on cotton	parasitising, Apanteles spp., in Iraq 516	outbreaks of 2022
damage caused by 1552, 2522, 2533,	Pediobius setigerus	Pemphigus immunis, in China 2588
5715	in Ivory Coast 4544	Pemphigus populi, in China 2588 Pemphigus populicaulis, on Populus
model of 2523 development of infestation with 5129	parasitising, Coelaenomenodera elaeidis, in Ivory Coast 4544	deltoides, galls of 3101
effects of irrigation on 483	Pegohylemyia seneciella, on Tyria jacobaea,	Pemphigus populitransversus
effects of plant growth regulators on	and biological control using, in New	in USA 3101
3044	Zealand 3355 Pegomya, on fungi, in Finland 5647	morphs of, distinguishing of 5160 on <i>Populus deltoides</i> , galls of 3101
effects of plant growth stage on 5715 effects of sowing date on 2039	Pegomya betae (see P. hyoscyami)	Pemphigus populivenae
forecasting infestations of 1273, 1276	Pegomya hyoscyami	habitat selection in 4093
in Arizona 491, 4070, 4607	control of	in USA 4093 on <i>Populus fremontii</i> , in Utah 4093
in Barbados 5121 in California 1038, 2529, 2549	insecticides for 464, 1871, 4591, 6533 threshold for 4591	Pemphigus protospirae, in China 2588
in Colombia 5125	food-plants of, detection of 465	Pemphigus sinobursarius
in Delhi 2543	in Belgium 464, 6533	sp. nov., description of 2588
in Egypt 222, 227, 5722	in Finland 4591 in Poland 1871, 3013	in China 2588 on <i>Populus</i> , in China 2588
in Haryana 6564 in Karnataka 1547, 1548	on sugar-beet	Pemphigus tibetensis
in Punjab 4068, 6560, 6561	damage caused by 211	sp. nov., description of 2588
in St. Vincent 5121	development of 3013 in Belgium 464, 6533	in China 2588 on <i>Populus</i> , in Tibet 2588
in Tamil Nadu 3558, 5126, 6562	III DOLBINIA TOT, VOOS	Jan

1452

on rice, in Sierra Leone 3918

Periclista sulfurana
in USA 6611

apple in, pest control on 2932

Asilidae in 156 Berytinus minor in 2574

Pennsylvania contd. 3-Penten-1-ol Pemphigus vulgaris in Dendroctonus pseudotsugae 3606 (E)-, increasing response of Dendroctonus sp. nov., description of 1834 in India 1834 Calligrapha spiraea in, on Physocarpus on wheat, in Sikkim 1834 Carulaspis minima in, on Juniperus 2068 pseudotsugae to attractants 3606 Penthetria, female terminalia in 5300 Pemphigus yangcola Ceratocapsus piceatus in 2573 sp. nov., description of 2588 Coccinellidae in 5466 pentheus, Chrysocharis Pentilia egena in China 2588 Corticoris pulchellus in, on Acer 1580 on Populus, in Yunnan Province 2588 C. signatus in, on Quercus 1580 in Brazil 4003 Pemphigus yunnanensis sp. nov., description of 2588 in China 2588 Empoasca fabae in, on lucerne 4907 in citrus groves, in Brazil 4003 seasonal abundance of 4003 Epiblema scudderiana in, natural enemies Pentodon bidens punctatum distribution of 4296 of 2825 on Populus, in Yunnan Province 2588
Pencap E (see Parathion)
Pencap-M (see Parathion-methyl)
pendula, Silba Eriosoma americanum in, natural enemies in Italy 4296 on grasses, in Italy 4296 Pentodon idiota of 5061 grapevine in, pest management on 4908 grassland in, insects in 347
Heteroptera in, in vineyards 5059 Penfluron (see Benzamide, 2,6-difluoro-Nin Iran 1380 on sugar-cane, in Iran 1380
parasitised by, mites, in Iran 1380
Pepper, black (see *Piper nigrum*)
Pepper (black) oil, in *Tyrophagus*putrescentiae diet, effects on developmen of 6172
Pepper Brazilian (see Schirm Hypera postica in natural enemies of 4538 [[[4-(trifluoromethyl)phenyl]amino]carbon lucerne 356

Lymantria dispar in 3576, 4913, 5278

natural enemies of 523, 1072, 2566

on forest trees 553, 568, 1103

Megalocoleus molliculus in, on Achillea Penicillic acid, Tribolium confusum not responding to 6179 in Galleria mellonella, effects on gut flora of 5850 Pepper, Brazilian (see Schinus terebinthifolius) in Hypera postica, not overcoming cytoplasmic incompatibility 6240 Penicillium, in, maize grain, in Nigeria 2069 Pepper, green (see Capsicum)
Pepper, red (see Capsicum)
Pepper, sweet (see Capsicum)
Peppermint (see Mentha piperita)
Peptides Myzus persicae in
natural enemies of 3537, 4916
on potato 2024, 3538, 4943, 4944
Orthotylus nassatus in, on Acer 2069
Oscinella frit in, on Phalaris 924
Otiorhynchus sulcatus in 505
Panonychus ulmi in, on grapevine 3458, 3650 Penicillium chrysogenum, in, cheese, favouring mites 3116 Penicillium oxalicum, Tribolium confusum responses to 6179 in Bombyx mori flacherie virus 3153 in Bombyx mori suboesophageal ganglion Penicillium purpurogenum, Tribolium confusum responses to 6179
Penicillium viridicatum, Tribolium confusum pest management in 2624
Prunus serotina in, insect pests of
Psallus betuleti in, on Betula 2069 in cricket paralysis virus 5844 in insect nervous systems, isolating of, review 5314 responses to 6179

Penn Cap M (see Parathion-methyl)

Penn Cap M/E (see Parathion, with parathion-methyl) Pseudopygmephorus smileyi in, in horse dung 2988 in insects, role in muscle pharmacology of 4774 4774
in Locusta migratoria suboesophageal
ganglion 2700

Peranus bimaculatus
in Egypt 4475
in dung, in Egypt 4475
perbibus, Typhlodromus
perdistincta, Campoletis (see C. flavicincta)
peregrina, Boetcherisca
peregrina, Corynodes (see Platycorynus Psylla pyricola in, on pear 4888 Psylliodes picina in, on maize 879 Penncap-E (see Parathion)
Penncap-M (see Parathion-methyl)
Penncap-MO (see Parathion-methyl) Sambucus spp. in, insect pollinators of 4545 pennipes, Trichopoda penniseti, Sesamia Sthenarus rotermundi in, on Populus 2069 ennisetivora, Dicraeus Tetraneura ulmi in, natural enemies of Pennisetum 5061 Recilia mica on, in Ivory Coast 2937 Tetraneura kalimpongensis on, in West Bengal 1834 Viteus vitifoliae in, natural enemies of 5061 peregrinus, Corynodes (see Platycorynus pennsylvanica, Phymata
pennsylvanicus, Gryllus
Pennyroyal (see Mentha pulegium)
pensylvanicus, Photuris
pensylvanicus, Harpalus
9-Pentacosene, in Attagenus unicolor cuticle,
developmental changes in 40 peregrinus) peregrinus, Graphognathus
Peregrinus maidis
biology of 3242
maize stripe virus in, transmission of Pennisetum alopecuroides, Oligonychus pratensis on, in China 4866 Pennisetum americanum aldrin in, not translocated 2145 Amsacta moorei on, in Rajasthan 2892 arthropod pests of peregrinus, Platycorynus (Corynodes) in Andhra Pradesh 4722, 6353 in India 5544 1-Pentadecanol, acetate, on rubber septa, half-life of 4171 Perezia pyraustae Atherigona approximata on, damage caused by 1928
Caliothrips indicus on, in India 5468
Chilo partellus on, development of 5020
Dicraea pennisetivora on, in West Africa
2899 2-Pentadecanol, 3,7-dimethyl-, acetate, (2S,3S,7S)-, attractant for, Neodiprion pinetum 742 Ostrinia nubilalis in Italy 5534 pathogenicity of 5534 perfidus, Heterotermes 1-Pentadecene, in Tribolium castaneum cuticle 6176 pentagona, Pseudaulacaspis perforans, Sinoxylon perforans, Xyleborus perforator, Anagrus (Paranagrus) perforator, Paranagrus (see Anagrus dieldrin in, not translocated 2145

Dysdercus cingulatus on, development of 4597 Pentamerismus erythreus in USA 6613 on Juniperus, in Florida 6613

pentascuta, Eupalopsis

Pentatoma rufipes, in Hungary 3314 insect pests of, in India 317, 6352 intercropped with *Cajanus cajan* 24 pest control on, in India 317 *Rhinyptia laeviceps* on, in Rajasthan 5263 perforator) Pergamasus longicornis preying on
Folsomia fimetaria 3422 Pentatomidae in Arunachal Pradesh Hypogastrura denticulata 3422 Sinella caeca 3422 pergandei, Phenacoccus in Galápagos Islands 6127 in Quebec 5408 in Ukraine 5249 Sipha flava on, resistance to 3372 Peribaea, parasitising, Mythimna spp., in Queensland 1921 Pennisetum americanum fields in vineyards, in Pennsylvania 5059 on grain crops, in Greece 3367, 5520 on grasses, effects of plant structure complexity on 4528 parasitic insects in, in Andhra Pradesh Peribatodes rhomboidaria biology of 1452 control of 1452 6310, 6353 predatory arthropods in, in Andhra Pradesh 6353 Pennisetum americanum (stored grain), descriptions of 1452 in Bulgaria 1452 on apple, in Bulgaria Pericallia ricini on sunflower, in Bulgaria 6558 on wheat, damage caused by 3374 parasitised by, Ocencyrtus spp. 3370 taxonomy of 4725 Pentatominae, taxonomy of 4725 pentatomivora, Manineura (Pachyneuron) pentatomivora, Pachyneuron (see Manineura pentatomiyora) Rhyzopertha dominica in, varietal preferences of 1929

Pennisetum clandestinum, Heteronychus arator on, assessing infestations of 5884

Pennisetum purpureum (chopped leaves), bait component for, grass-cutting ants 4430 Pericallia ricini
control of, insecticides for 859, 2487
granulosis virus in 5238
in Tamil Nadu 2615
in India 2487, 2615
Nosema spp. in 5238
nuclear polyhedrosis virus in, in Tamil
Nadu 2615
on soyabean, in Madhya Pradesh 2487
Pericapritermes socialis
in Sierra Leone 3918
on rice in Sierra Leone 3918 pentatomivora, rachyheuron (see Manneura pentatomivora)
Pentatomoidea, taxonomy of 4725
Pentatriacontane, 11,12-dimethyl-, in
Lasioderma serricorne cuticle 5331
Pentatriacontane, 13,14-dimethyl-, in
Lasioderma serricorne cuticle 5331
Pentatrichopus fragaefolii (see Chaetosiphon fragaefolii)
2-Pentenal 5-(2-furanyl)-2-methyl-, (F), in 4430 Pennisetum typhoides (see P. americanum) pennisetus, Tarsonemus Pennsylvania Agromyza frontella in natural enemies of on lucerne 4902

2-Pentenal, 5-(2-furanyl)-2-methyl-, (E)-, in Neodiprion sertifer adults 1236

Periclista sulfurana contd.	Perkinsiella contd.	Permethrin contd.
on Quercus palustris, in Oklahoma 6611	sugar-cane Fiji disease virus in,	against contd.
Peridroma saucia	transmission of 1377	Operophtera brumata, on Quercus
bibliography 3826 control of	Perkinsiella boreon	6628
baits for 944	sp. nov., description of 707 in Papua New Guinea 707	Orgyia pseudotsugata, on Pseudotsuga 2072
insecticides for 944	Perkinsiella bulli	Ostrinia nubilalis, on potato 4906
cytochromes in 4785	sp. nov., description of 707	Oulema melanopus 2635
enzymes in 4785	in Papua New Guinea 707	pests of apple 1976
in Spain 3388/ in USA 944	Perkinsiella diagoras	pests of stored grain 3635
insecticide susceptibility in, effects of food-	sp. nov., description of 707 in Papua New Guinea 707	pests of structural wood 2097 pests of Vigna unguiculata 5104
plant on 4785	Perkinsiella falcipennis	Pheidole spp., on Phalaris 5576
on grapevine, in California 944	sp. nov., description of 707	Plusia spp., on soyabean 3007
on rice, in Spain 3388 Perihylobius, gen. nov., description of 2173	in Papua New Guinea 707	Plutella xylostella on cabbage 2002
Perihylobius sogdianus	Perkinsiella lalokensis, in Papua New	on cauliflower 5889
sp. nov., description of 2173	Guinea 707 Perkinsiella macrinus	Psylla pyricola, on pear 4888
in USSR 2173	sp. nov., description of 707	Pterochloroides persicae, on peach 39
Perilampus, parasitising, Neodiprion excitans, in Belize 1071	in Papua New Guinea 707	Spodoptera exigua 2310
Perilampus australis	Perkinsiella mycon	on Cicer arietinum 2302 on cotton 3552
hyperparasitising, Chortoicetes	sp. nov., description of 707	on potato 4906
terminifera, in New South Wales	in Papua New Guinea 707	S. frugiperda 2310, 5265
2322 in Australia 2322	Perkinsiella papuensis, in Papua New Guinea 707	on Cynodon dactylon 1423 on maize 4906
parasitising, Ceracia fergusoni, in New	Perkinsiella rattlei, in Papua New Guinea	S. littoralis 2634
South Wales 2322	707	Therioaphis trifolii, on lucerne 2296
Perilitus coccinellae	Perkinsiella saccharicida	Thymelicus lineola, on Phleum 3978
development in, effects of temperature on 5472	in Australia 3880	Tortrix viridana, on Quercus 6628
diapause in 3290	in Papua New Guinea 707 on sugar-cane, varietal preferences of	Trialeurodes vaporariorum, on ornamental plants 5733
hosts of 1886	3880	Tribolium castaneum 5262
in Canada 5471	sugar-cane Fiji disease virus in,	Trichoplusia ni
mating in 5471	transmission of 3880	on cabbage 2002
parasitising Coleomegilla maculata 3290, 5472	Perkinsiella thompsoni, in Papua New Guinea 707	on kale 4906 Trogoderma variabile, in stored grain
in Ontario 5471	Perkinsiella vastatrix, in Papua New Guinea	4666
seasonal synchrony of hosts and 3290	707	alarm pheromone increasing effectiveness
Perillenal (see 2-Pentenal, 5-(2-furanyl)-2-	perla, Chrysopa	against aphids 5654
methyl-) Perillene (see Furan, 3-(4-methyl-3-	Permaguard (see Kieselguhr) Permethrin ((3-phenoxyphenyl)methyl 3-	chemical properties of 5889 formulations of 5874
pentenyl)-)	(2,2-dichloroethenyl)-2,2-	microencapsulated 5875
Perillus bioculatus	dimethylcyclopropanecarboxylate)	in Apanteles marginiventris, toxicity of
in USA 2367	against	3547
reservoirs of 2367 peringueyi, Crematogaster	Acrididae 5980 Agrotis ipsilon 6168	in apple orchards, effects on predatory mites of 1976
Periplaneta americana	A. segetum 6709	in Campoletis sonorensis, toxicity of
activity in, monitoring of 172	Anomala corpulenta 677	4069
aflatoxins in, toxicity of 6678	Anticarsia gemmatalis, on soyabean 3007	in Carausius morosus, effects on neurosecretory system of 2633
allethrin in, effects of temperature on susceptibility to 1235	Artogeia rapae	in Chrysomelidae, toxicity of 6216
chemoreceptor proteins in 1235	on cabbage 2002	in Coccinella undecimpunctata, toxicity o
control of, insecticides for 1145, 1146	on cauliflower 5889	2634
enzymes in 3257 growth regulators in, degradation of	Baris lepidii, on horseradish 4026 Blatta orientalis 5262	in Coccinellidae, toxicity of 2635, 6216 in fruit trees, translocation of 3194
3257	Blattella germanica 5262	in Geocoris punctipes, toxicity of 3547
hemolymph in, amino acids in 1212	Blissus leucopterus, on sorghum 6169	in guinea-pig, toxicity of 1157
immunity in 5231	Choristoneura occidentalis, on	in Hippodamia convergens, toxicity of
insecticides in, effects on melanisation of 4705	Pseudotsuga 3707 Cnaphalocrocis medinalis, on rice	3547 in hop, translocation of 3194
juvenile hormones in, identifying of 56	3926	in horseradish, not toxic 4026
neurophysiological techniques with 4870	Conopia myopaeformis, on apple 3806	in insects, metabolism of 656
pyrethroids in	Costelytra zealandica, in pastures	in lucerne, not toxic 5576
metabolism of 1691 penetration of 1691	5874, 5875 <i>Cydia molesta</i> , on peach 3486	in Macrocentrus ancylivorus, toxicity of 3486
Periplaneta brunnea	C. pomonella 6695	in man, toxicity of 1157
in Netherlands 816	on apple 3194, 5889	in Neoseiulus fallacis, toxicity of 376
in buildings, in Netherlands 816	Delia brassicae, on brussels sprouts	in Panonychus ulmi, toxicity of 5886
Perisierola nephantidis (see Parasierola nephantidis)	3809 Diabrotica longicornis 2635	in parasitic Hymenoptera, toxicity of 6216
Perissopneumon phyllanthi	Dicladispa armigera, on rice 6403	in Phalaris aquatica, toxicity of 5576
in India 4083	Epiphyas postvittana, on apple 5889	in plants, metabolism of 656
on coffee, in Tamil Nadu 4083	Eriosoma lanigerum, on apple 5885	in Podisus maculiventris, toxicity of
Perissopneumon tectonae control of, insecticides for 1997	Frankliniella occidentalis, on tomato 1483	in Rhizobium, not toxic 5576
in India 1997	Gryllotalpa unispina 677	in soil, degradation of 656
on guava, in Uttar Pradesh 1997	Heliothis spp., on cotton 3552	in Spodoptera littoralis, effects on nervou
Peristenus adelphocoridis	H. armigera	system of 6715 in <i>Tetranychus urticae</i> , toxicity of 5886
sp. nov., description of 5578 in Denmark 5578	on maize 5889 on tomato 5889	in Tetrastichus julis, toxicity of 2635
in France 5578	H. virescens 2310, 4069	in Typhlodromus pyri, toxicity of 376
parasitising	on cotton 4060	in vertebrates, metabolism of 656
Adelphocoris spp.	H. zea 4069	insecticidal activity of 5958 on <i>Pseudotsuga menziesii</i> , effects of rain
in Denmark 5578 in France 5578	on Cicer arietinum 2302 Hylobius spp., on forest trees 5769	on 2072
Peritelus sphaeroides	Lycoriella auripila, in mushroom	physical properties of 5889
in France 3461	compost 4571	resistance to, in, Spodoptera littoralis, and
on Castanea, in France 3461	Lygus spp., on lucerne 2297	cross-resistance 4379 sunlight stability of 5261
perkinsi, Trichogramma Perkinsiella	Megaselia halterata, in mushroom compost 4571	synergists for
on sugar-cane, feeding by, measuring of	Myzus persicae, on Chinese cabbage	formamidines as 4069
1377	5654	piperonyl butoxide as 3635

with Bacillus thuringiensis	in forests contd.	toxicity testing of 3217
against Operophtera brumata, on Quercus	review 5444 use of helicopters in 6618	use in integrated control of 4949 use of
6628	in Illinois 6690	in Central America 4948
Tortrix viridana, on Quercus 6628	in USA 1141	in developing countries 1679
with chlordimeform	insect movement data in 1276	in Japan 6704
against	microclimate in 4288	in Nigeria 1682
Heliothis virescens 4069 H. zea 4069	modelling in 5931 monitoring systems for, book 3186	in South Africa 642 in UK 6697
in Campoletis sonorensis, toxicity of	on apple 2440, 5893	in USSR 2120
4069	on cabbage 2002	in West Germany 2131
with phosphamidon, against,	on cassava 1024	Petrobia latens biology of 1451
Choristoneura fumiferana 541 (1RS-cis)-	on Citrus 6481 on cotton 1276, 2040, 2532, 4598, 4599	in UK 1451
in Periplaneta americana	on cucurbits 1488	in USA 1488
metabolism of 1691	on fruit trees, book 2932	on cherry, in UK 1451
penetration of 1691 in Spodoptera littoralis	on grapevine 4908 on lucerne, model 6137	on cucurbits, in California 1488 on grasses, in UK 1451
metabolism of 1691	on nut trees, book 2932	on onion, in UK 1451
penetration of 1691	on olive, analysis of 406	Petroleum, against, Batocera spp., on
(1RS-trans)- (see Transpermethrin) perniciosi, Prospaltella	on pear 5892 on Pinus 5181	mulberry 378 Petroselinum crispum (see Parsley)
perniciosus, Diaspidiotus (see	on Pinus radiata 5797	Petrova, on Pinus, in Thailand 5175
Quadraspidiotus perniciosus)	on rice 344	Petunia
perniciosus, Quadraspidiotus (Diaspidiotus) pernyi, Antheraea	on soyabean 6193 on <i>Vigna radiata</i> 445	Manduca sexta on 90 Strymon melinus on, in Maryland 86
Peromyscus leucopus, Lymantria dispar	radar in 1278, 1284	Petunia violacea, Anoecia himalayensis o
nuclear polyhedrosis virus in, passage	role of pesticides in 1680	in Uttar Pradesh 1941
through gut of 1568	survey and detection systems in 2624	Peucedanum, Gortyna borelii on 993
Peropal (see Azocyclotin) Peroxidase, in Schistocerca gregaria cuticle	systems analysis in 5931 systems approach to 2115	Peucedanum verticillare insecticidal activity of oil from 6173
3261	use of controlled burning in 625	repellent activity of oil from 6173
perpilosa, Formica	use of resistant plants in 1134	Peucetia viridans
perpusilla, Pyrilla Persea americana (see Avocado)	Pesticide resistance 6713 management of 4801, 5256	in USA 4603 preying on, Heliothis virescens, in Texa
perseae, Conotrachelus	Pesticides	4603
Persectania dyscrita	biological testing of 5957	Pexicopia, attractants for 4072
biology of 6356 control of 6356	book 1141, 4152 conjugation with amino acids of 3200	pH in Hypena iconicalis 2225
in Australia 6356	conjugation with sugars of 3199	in Lymantria dispar diet, effects on vir
on grain crops, in Western Australia	crop losses not reduced by 630	production of 4935
6356	data bank on 2122 determination of 3217	in sugar-beet, effects of <i>Pegomya</i> hyoscyami on 211
Persectania ewingii biology of 6356	development costs of 623	PH 60-40 (see Diflubenzuron)
control of 6356	development of 1681	PH 60-41 (see 1H-Pyrazole-1-carboxamic
in Australia 6356	environmental contamination with 5253	N,3-bis(4-chlorophenyl)-4,5-dihydro-)
on grain crops, in Western Australia 6356	environmental pollution with, preventing of 2143	PH 66-13 (see Diflubenzuron, with endosulfan)
rearing of, techniques for 811	esterase degradation of 3198	PH 66-14 (see Diflubenzuron, with
persicae, Brachycaudus	evaluation of non-target effects of 3177	methomyl)
persicae, Ephedrus persicae, Myzodes (see Myzus persicae)	exposure/effect relationships of 679 formulations of	Phaedon cochleariae, control of, insecticite for 654
persicae, Myzus (Myzodes)	effects on activity of 3213, 3214, 3216	Phaenocarpa, in Oriental region 4446
persicae, Pterochloroides (Pterochlorus)	relationship of acidity and activity of	Phaenoglyphis piciceps (see P. villosa)
persicae, Pterochlorus (see Pterochloroides persicae)	646, 647 gas chromatography of, bibliography	Phaenoglyphis villosa hyperparasitising, grain aphids, in
persimilis, Phytoseiulus	2129	England 1388
Persimmon (Diospyros kaki)	in animal products, effects on food value	in UK 1388
Dialeurodes citri on, in Italy 3491	of 1708	parasitising, Aphidius spp., in England
Diaprepes abbreviatus on, development of 4556	in environment, degradation of 3203 in foodstuffs	Phaeoses
pest control on, pesticides for 6441	residues of 3212	in North America 15
personella, Nemapogon	classification of 3211	taxonomy of 15
Perthane (see Ethyl-DDD) perticella, Euzophera	setting of maximum residue levels of 3209	phaeospora, Acrocercops Phagostimulants
Peru	in insects, role of oxidases in metabolism	for Aphis fabae
Phytoseiidae in 2334	of 3197	in Vicia faba 1824
Polistes lanio in, natural enemies of 4452 peruanas, Amblyseius	in invertebrates, pharmacology of, book 3274	phenols as 2735 for Lepidoptera, testing of 1720
peruensis, Xenos	in mammals, role of oxidases in	for Phyllotreta armoraciae, in horserad
peruvianus, Dermestes	metabolism of 3197	1367
Pest control assessing of 2629, 2630	in plant products, effects on food value of 1708	Phalacridae, in woodland, in Czechoslova 5201
book 2621, 2751, 3696, 5920	in soil	Phalacrotophora, parasitising, Harmonia
forecasting pest occurrences 3187	effects on fauna of 1683	conformis, in New South Wales 306
in Assam 4142 in Canada, cost of 4700	non-biological degradation of 3202 in stored grain, determination of 3639	Phalaenoides glycinae, male scent-organ chemicals in 2693
in RSFSR 3184	non-biological detoxification of 3204	Phalaris aquatica
models of 4697	photodegradation of 3201	bendiocarb in, not toxic 5576
relating of experimental data to 804 Pest management	residues of activities of FAO/WHO Codex	Costelytra zealandica on, damage cause
biotype discrimination in 4808	Alimentarius Commission	by 5872 permethrin in, toxicity of 5576
book 631, 2751, 5920	concerning 5252	Pheidole spp. on, in New South Wales
decisions in 5783, 5786, 5787	effects of sampling methods on results	5576 Photovia anundinassa
development of 5436, 5781, 5932 ecological basis of, review 5247	of analysis of 3206 interlaboratory studies on analysis of	Phalaris arundinacea cereal aphids on, survival and
ecological theory and, review 5438	3207	reproduction of 2358
forecasting in 3188	standardising of analysis of 3208	Oscinella frit on, resistance to 924
future of 5781 genetic engineering in 4813	role in pest management of 1680 sampling of 3217	phalerata, Mylabris Phanaeus endymion, complex of 1766
in forests 1736, 3089, 5780, 5782, 5784,	side-effects of 3176	Phanaeus halffterorum
5785, 5786, 5788, 5789	evaluating of 5970	sp. nov., description of 1766

Phanaeus halffterorum contd.	Phaseolus (stored seeds) contd.	Pheidole dentata contd.
in Mexico 1766	Zabrotes subfasciatus in, varietal	in sugar-cane plantations, in Florida
on fungi, in Mexico 1766 Phanerotoma, parasitising, Maruca testulalis,	preferences of 5828 Phaseolus vulgaris	4499
in Nigeria 6514	arthropod pests of 5103	parasitised by, Apocephalus tenuipes, in Florida 4499
Phanerotoma fasciata	in Egypt 4357	trophallactic appeasement in 3335
in USA 3993	in Queensland 3004	Pheidole guineensis, mandibular glands in,
parasitising, Cydia caryana, in Texas	bean golden mosaic virus in, in Cuba	secretion of 4761
3993	4033	Pheidole megacephala
Phanerotoma flavitestacea	bean yellow stipple virus in, in Cuba	control of, insecticides for 2974, 5264
adipose tissue in, developmental changes	4034 Bemisia tabaci on, in Cuba 4033	in South Africa 2974
in 3849 composition of, developmental changes in	bibliography 1507	on Citrus, in South Africa 2974
6091	Cerotoma trifurcata on, development of	Pheidole pallidula, caste determination in, role of JH in 4970
descriptions of 3850	6190	Phellandrene
development in 3850	Colaspis louisianae on, in Louisiana 4310	Dysdercus fasciatus not responding to
embryonic membrane in, functions of	cowpea chlorotic mottle virus in, beetle transmission of 2007	1677
2838	Delia platura on, in Wisconsin 6230	Oxycarenus hyalinipennis not responding
host development and morphology as	Empoasca kraemeri on	to 1677
affected by 5474 oviposition in, effects of host age on	development of 5664	β-Phellandrene (see Cyclohexene, 3-
2837	in Brazil 1009	methylene-6-(1-methylethyl)-) Phellinus weirii, in, Abies spp., Scolytus
parasitising, Ephestia kuehniella 2837,	Epilachna varivestis on development of 2480	ventralis associated with 2065
3849, 3850, 5474, 6091	in Maryland 4028	Phellodendron amurense, Calophya nigra o
Phania vittata (see Evibrissa vittata)	Hedylepta indicata on, in Brazil 6510	in Maritime Territory 147
Phanomeris braconius (see Colastes	Ophiomyia phaseoli on	Phellodendron sachalinense, Calophya nigra
braconius)	in West Malaysia 2479	on, in Maritime Territory 147
Phantacrus lobatus	varietal preferences of 6511	Phelypera distigma
in USA 1078 on Pseudotsuga menziesii, in California	Ostrinia nubilalis on, damage caused by 4894	in Costa Rica 5219
1078	Peridroma saucia on, insecticide	on Guazuma ulmifolia, damage caused b
Phaonia gobertii	susceptibility of 4785	5219 Phenacoccus gossypii, on cassava 1023
in France 5186	pest control on 3004, 5103	Phenacoccus mangiferae (see Rastrococcus
in Scolytid tunnels, in France 5186	companion crops for 3512	mangiferae)
obaraonis, Monomorium Pharoscymnus taoi	Phytoseiulus persimilis on, predation by 4999	Phenacoccus manihoti, on cassava, resistano
in Taiwan 2046	Polyphagotarsonemus latus on, damage	to 696
preying on, Pseudaonidia duplex, in	caused by 1008	Phenacoccus pergandei, glycerides in 6090
Taiwan 2046	Pseudoplusia includens on, feeding	Phenacoccus solani
ohaseoli, Agromyza (see Ophiomyia	preferences of 6201	in USA 2599
phaseoli)	subterranean clover red leaf virus in,	on potato, in Oklahoma 2599
phaseoli, Callosobruchus phaseoli, Matsumuraeses	symptoms of 1504 Tetranychus desertorum on, in Colombia	Phenanthrene, dimethoxybis[(methoxyphen; l)methyl]-, in technical methoxychlor
phaseoli, Melanagromyza (see Ophiomyia	1008	3205
phaseoli)	T. urticae on	2,8-Phenazinediamine, N ⁸ ,N ⁸ ,3-trimethyl-
phaseoli, Ophiomyia (Agromyza;	development of 5102	monohydrochloride
Melanagromyza)	in UK 268	in Manduca sexta, effects on
phaseoli, Opius Phaseolus	reproduction by 3566 virus control in, vector control for 5089	carbohydrates of 5345 in <i>Spodoptera littoralis</i> , uptake from
Aphis craccivora on	Phaseolus vulgaris meal	mid-gut of 4361
effects of plant constituents on 4340	diet component for	Phendal (see Phenthoate)
effects of pubescence on 4340	Chilo partellus 6427	Phenmedipham (3-[(methoxycarbonyl)amin
arthropod pests of, in Mexico 1010	Heliothis armigera 4330	olphenyl (3-methylphenyl)carbamate)
Cerotoma ruficornis on, resistance to	Spodoptera littoralis 5717	in sugar-beet, effects on aphids of 3014 Phenol, Aphis fabae feeding responses to
2301 Diabrotica balteata on	Phaseolus vulgaris (stored seeds) Acanthoscelides obtectus in 5829	2735
damage caused by 2300	oviposition by 2680	Phenol, 2-amino-
resistance to 2301	A. obtectus vitellogenesis stimulated by	synergist for
Empoasca spp. on, resistance to 2301	2710	chlorpyrifos 226
pest control on 1010	arthropod pests of 5103	diazinon 226
Tetranychus piercei on 705 Phaseolus aconitifolius (see Vigna	insecticides in effects on composition of 4401	fenvalerate 226 with malathion, antagonistic 226
aconitifolia)	residues of 4397	with mexacarbate, antagonistic 226
Phaseolus aureus (see Vigna radiata)	pest control in 5103	with phosfolan, antagonistic 226
Phaseolus calcaratus (see Vigna umbellata)	temperature control for 3657	Phenol, 3-amino-
Phaseolus lathyroides (see Macroptilium	Zabrotes subfasciatus in 5829	synergist for
lathyroides) Phaseolus lunatus	Phasia subcoleoptrata (see Alophora subcoleoptrata)	chlorpyrifos 226 diazinon 226
Cerotoma trifurcata on, development of	phasiana, Anoplocnemis	fenvalerate 226
6190	Phasmatidae, parasitised by, Chrysididae, in	with malathion, antagonistic 226
Epilachna varivestis on	North America 6317	with mexacarbate, antagonistic 226
damage caused by 4891	Phasmoptera, in Soviet Central Asia 2755	with phosfolan, antagonistic 226
development of 2480 effects of plant growth stage on 2481	Phaulacridium vittatum control of, biological 5951	Phenol, 4-amino- synergist for
Heliothis armigera on, development of	in Australia 5951	chlorpyrifos 226
2483	Pheidole	diazinon 226
H. zea on, damage caused by 4891	chemical crypsis in 1876	fenvalerate 226
pest control on, thresholds for 4891	control of, insecticides for 5576	with malathion, antagonistic 226
Phaseolus lunatus (stored seeds)	on Phalaris aquatica, in New South Wales 5576	with mexacarbate, antagonistic 226 with phosfolan, antagonistic 226
Callosobruchus analis in, oviposition by 5827	prey of, not repelled by mandibular-gland	Phenol, 2,4-bis(1,1-dimethylethyl)-6-[(4-
Conoderus exsul in, development of 4314	secretion 1876	methoxyphenyl)methyl]-
Zabrotes subfasciatus in, in India 3680	Pheidole anastasii	in bacteria, not mutagenic 2126
Phaseolus meal, diet component for,	in Canada 4428	in mouse, toxicity of 2126
Trichoplusia ni 5427	in hothouses, in Manitoba 4428	sterilant for, Musca domestica 2126
Phaseolus mungo (see Vigna mungo)	Pheidole bicarinata longula in USA 877, 1875	Phenol, 4-bromo-2-chloro-, in soil, profenofos photoproduct 1713
Phaseolus (stored seeds) Acanthoscelides obtectus in, varietal	in maize fields, in Nebraska 877, 1875	Phenol, 4-bromo-2,5-dichloro-, in cheese,
preferences of 5828	preying on, Diabrotica virgifera 877	leptophos product 5983
Araecerus fasciculatus in, damage caused	seed preferences of 1875	Phenol, 3,4-dimethyl-, methylcarbamate,
by 586	Pheidole dentata	against, Holoplagia guamensis, on
arthropod pests of, in Mexico 1010	in USA 4499	mushroom 2991

Lymantria dispar, in Poland 3592

```
Phenol, 4-(dimethylamino)-3,5-dimethyl-,
                                                                                                                          10H-Phenothiazine
                                                                                                                                                                                                                                                    Philippines contd.
                                                                                                                                                                                                                                                         Chalcidoidea in 4462
          methylcarbamate (ester) (see
                                                                                                                                against
                                                                                                                                                                                                                                                         Chilo polychrysus in, on rice 3895
C. suppressalis in
          Mexacarbate)
                                                                                                                                       Varroa jacobsoni 252
                                                                                                                                on Apis mellifera 6301
with 2,4,6-trimethyl-1,3,5-trioxane
  Phenol, 4-(dimethylamino)-3-methyl-,
         methylcarbamate (ester) (see Aminocarb)
tenol, 3,5-dimethyl-4-(methylthio)-,
methylcarbamate (see Methiocarb)
                                                                                                                                                                                                                                                               natural enemies of 905
                                                                                                                                      against
                                                                                                                                                                                                                                                               on rice 3895
Phenol, 3,5-dimethyl-4-(methylthio)-,
methylcarbamate (see Methiocarb)
Phenol, 2,4-dinitro-, in Spodoptera littoralis,
stimulating ATPase 4359
Phenol, 2-(1,3-dioxolan-2-yl)-,
methylcarbamate (see Dioxacarb)
Phenol, 4-ethyl-, methylcarbamate, in Apis
mellifera, anticholinesterase activity and
toxicity of 680
Phenol, 3-(1-ethylpropyl)-, methylcarbamate,
with 3-(1-methylbutyl)phenyl
methylcarbamate (see Bufencarb)
Phenol, 2-f(ethylthio)methyl]-,
methylcarbamate (see Ethiofencarb)
Phenol, 2-fluoro-, attractant for, Costelytra
zealandica 2648
Phenol, 3-fluoro-, inhibitor of Costelytra
zealandica 2648
Phenol, 4-fluoro-, attractant for, Costelytra
zealandica 2648
Phenol, 2-methoxy-
Aphis fabae feeding responses to 2735
acetate, in Acheta domesticus diet,
possibly inducing polyembryony 1781
Phenol, 2-methoxy-4-(2-propenyl)- (see
Eugenol)
                                                                                                                                                                                                                                                         Cnaphalocrocis medinalis in, natural enemies of 904
                                                                                                                                            Varroa jacobsoni 252, 3851
                                                                                                                                                 on Apis mellifera 6297, 6301
                                                                                                                                                                                                                                                         enemies of 904

Hydrellia spp. in, on rice 2372, 3960

H, philippina in, on rice 4509

Leptocorisa spp. in, on rice 3969

Nilaparvata lugens in 6719

natural enemies of 3967

on rice 2381, 3389, 3396, 3398, 3400, 3402, 3410, 3911, 3928, 3960, 4509, 5299, 6388

Nymphula depunctalis in op rice 2373
                                                                                                                          Phenothrin ((3-phenoxyphenyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) against, pests of stored grain 3635 analogues of, insecticidal activity of 658
                                                                                                                                in insects, metabolism of 656 in plants, metabolism of 656 in soil, degradation of 656 in vertebrates, metabolism of 656
                                                                                                                                                                                                                                                         Nymphula depunctalis in, on rice 2372
Ophiomyia phaseoli in, on Vigna
unguiculata 3952
Oribatei in 6004
                                                                                                                                synergists for, piperonyl butoxide as 3635
                                                                                                                           Phenthoate (ethyl α-[(dimethoxyphosphinot-
hioyl)thio]benzeneacetate)
                                                                                                                                                                                                                                                         Platypodidae in, on mahogany 5184
Pseudonapomyza asiatica in, on rice
                                                                                                                                against
                                                                                                                                      Achaea janata, on castor 5710
Adisura atkinsoni, on Lablab purpureus
                                                                                                                                                                                                                                                                  3938
                                                                                                                                                                                                                                                         rice hoppers in, natural enemies of 3908
                                                                                                                                              426
                                                                                                                                                                                                                                                         rice in
                                                                                                                                      Amrasca biguttula, on castor 5710
Aphis gossypii, on cotton 6563
Chilo partellus, on sorghum 1416
Cydia molesta, on peach 2966
Eutetranychus orientalis, on Citrus
                                                                                                                                                                                                                                                         insect pests of 323, 892, 900
pest control on 323, 3902, 5567
Scirpophaga incertulas in, on rice 3895,
3913, 4509
                                                                                                                                                                                                                                                          S. innotata in, on rice 3895
                                                                                                                                              2450
                                                                                                                                                                                                                                                         Scolytidae in, on mahogany
 Phenol, 3-(1-methylbutyl)-,
methylcarbamate, with 3-(1-
ethylpropyl)phenyl methylcarbamate (see
Bufencarb)
                                                                                                                                      Heliothis armigera
                                                                                                                                                                                                                                                          Sesamia inferens in, on rice
                                                                                                                                           on Cicer arietinum 2021
                                                                                                                                                                                                                                                         Sogatella furcifera in 6719
natural enemies of 3967
                                                                                                                                     on Cicer arietinum 2021
on Lablab purpureus 426
pests of structural wood 2097
Pyrilla perpusilla, on sugar-cane 5515
Sciothrips cardamomi, on Elettaria
cardamomum 6343
Scirtothrips dorsalis, on Capsicum
6554
                                                                                                                                                                                                                                                         Tetragnathidae in 4512
Tetranychus piercei in 705
Thrips palmi in, on Vigna unguiculata
3952
 Butencaro)
Phenol, 2-methyl-4,6-dinitro- (see DNOC)
Phenol, 2-(1-methylethoxy)-,
methylcarbamate (see Propoxur)
Phenol, 2-(1-methylethyl)-, methylcarbamate
(see Isoprocarb)
Phenol, 3-(1-methylethyl)-
methylcarbamate
in Anis mellifera, anticholinesterase
                                                                                                                                                                                                                                                   Tryporyza spp. in, on rice 2372
Vigna radiata in
insect pests of 438, 449
pest control on 446, 447
Phillippia oleae (see Filippia oleae)
philodromidae
in Alesko 2316
                                                                                                                                Spodoptera litura 1154
Thrips tabaci, on cotton 5127
in Coccinella septempunctata, toxicity of
 methylcarbamate
in Apis mellifera, anticholinesterase
activity and toxicity of 680
resistance to, in, Spodoptera littoralis,
in Egypt 486
Phenol, 5-methyl-2-(1-methylethyl)-, in
                                                                                                                                in coffee, not toxic 6579
                                                                                                                                                                                                                                                         in Alaska 2816
in Canada 2816
                                                                                                                                with 3-methylphenyl methylcarbamate
                                                                                                                                      against
          Niesthrea louisianica exocrine secretions
                                                                                                                                     Nilaparvata lugens, on rice 3407
Sogatella furcifera, on rice 6407
in rice-fields
                                                                                                                                                                                                                                                          in forests, effects of acephate on 2073
                                                                                                                                                                                                                                                   in forests, effects of acephate on 20 Philodromus placidus in USA 4919 in apple orchards, in Virginia 4919 prey of 4919 Philodromus rufus in Canada 387 in apple orchards in Oyahec 387.
 Phenol, 3-methyl-2-(1-methylethyl)-4,6-dinitro- (see Dinoprop)
                                                                                                                                           effects on predatory insects of 3407
non-target effects of 6407
 Phenol, 3-methyl-4-nitro-, in forest soils,
fenitrothion product 3226
Phenol, 2-(1-methylpropyl)-
methylcarbamate
                                                                                                                           L-Phenylalanine
                                                                                                                                in Bombyx mori diet, absorption from
mid-gut of 6067
in Sitophilus oryzae diet, not required
3269
                                                                                                                                                                                                                                                   in apple orchards, in Quebec 387

Philonthus
             against
                                                                                                                                                                                                                                                  Philonthus
in cattle dung, in Finland 1303
in rye fields, in West Germany 6358
Philosamia cynthia (see Samia cynthia)
Philoscia muscorum
in UK 3429, 3430
in dune grassland
in England 3429
role as decomposer of 3430
population dynamics of 3429
Phiebopenes, in Trinidad 2768
phiebophyllae, Psylla
phiei, Oscinella
Phileum pratense, Thymelicus lineola on,
                  Cnaphalocrocis medinalis, on rice 3926
                                                                                                                           Pheromones, neurotoxicology of, conference 1235
                   Nilaparvata lugens, on rice 339, 3395, 3928, 3951, 3958, 3959, 5555
                                                                                                                          phialatus, Typhlodromus
phidilealis, Hellula
Phidippus, preying on, Heliothis virescens,
in Texas 4603
             in rice, reducing reproduction by
Nilaparvata lugens 3928
with tetranactin, acaricidal activity of
                                                                                                                           Phidippus audax
feeding behaviour in 247
                                                                                                                                preying on

Dermestes lardarius
  Phenol, 2-(1-methylpropyl)-4,6-dinitro- (see
                                                                                                                          Musca domestica 247
Phormia regina 247
Sarcophaga bullata 247
Philaenus spumarius
embryonic development in, effects of
  Phenol oxidase (see Oxygenase, monophenol
                                                                                                                                                                                                                                                    Phleum pratense, Thymelicus lineola on, in Quebec 3978
  Phenol, pentachloro-
       against
                                                                                                                                                                                                                                                    Phloeobius, in Japan 4187
                                                                                                                                                                                                                                                   Phloeousis, in Sapan 4167
Phloeousis pusillus
in Poland 2074
in bark-beetle galleries, in Poland 2074
Phloeosinus dentatus
in USA 5151
on Institutional in Georgia (US)
             blue-stain fungi 4102
                                                                                                                                temperature on 2417
in New Zealand 160
in USA 5580
             Coptotermes acinaciformis, in Dyera
                     costulata wood 4129
 Nasutitermes exitiosus, in Dyera
costulata wood 4129
Phenolic resins
                                                                                                                                nymphal development in, effects of temperature on 2418
                                                                                                                                                                                                                                                         on Juniperus virginiana, in Georgia (USA)
                                                                                                                           on lucerne, damage caused by 5580

Philanthus gibbosus
in USA 91
       attractant for, Costelytra zealandica
                                                                                                                                                                                                                                                  parasites of, in Georgia (USA) 5151

Phlogophora, larval development in 3802

Phlogophora meticulosa
in UK 4721
on strawberry, in England 4721

Phloridzin (see 1-Propanone, 1-[2-(β-D-glucopyranosyloxy)-4,6-dihydroxyphenyl]-3-(4-hydroxyphenyl)-)

Phlyctinus callosus
in Australia 1441
                                                                                                                                                                                                                                                                 5151
               3723
       formulations of 3723
                                                                                                                          mating in 91

Philanthus triangulus
in USSR 3337
  Phenols
       in Choristoneura fumiferana exuviae
                6063
      6063
in cotton, role in resistance to
Tetranychidae of 2520
in raspberry, effects of Resseliella
theobaldi on 1443
in rice, role in resistance to Orseolia
oryzae of 5562
in sorghum, deterring feeding by Locusta
migratoria 5040
in sugar-beet, effects of Pegomya
hyoscyami on 211
                                                                                                                                plants visited by, in Uzbekistan 3337
venom of 4766
                                                                                                                         venom of 4766
philippina, Hydrellia
philippinensis, Cardiochiles
philippinensis, Epilachna
philippinensis, Macrocentrus
philippinensis, Temelucha
Philippines
Amaroca himutula
                                                                                                                                                                                                                                                         in Australia 1441
                                                                                                                                                                                                                                                         on crop plants, in Tasmania 1441
                                                                                                                                                                                                                                                         cocoon jumping in 6327 parasitising
                                                                                                                                Amrasca biguttula in, on Vigna unguiculata 3952
```

against contd.

Subject Index
Phobocampe contd.
parasitising contd. Operophtera spp., in British Columb
6327
Phobocampe disparis in Poland 3592
parasitising, Lymantria dispar, in Pola
3592 phoenicis, Brevipalpus
phoenicis, Ectomyelois (see E. ceratoniae
Phoenicococcidae, taxonomy of 2670 Phoenix, Rhizoecus hibisci on, damage
caused by 1060 Phoenix dactylifera (see Date palm)
Pholcus
in rice-fields, in Kerala 3939 preying on, Nilaparvata lugens 3939
Phoma medicaginis
in lucerne
associated with Agromyza frontel. 5050
in Quebec 5050
Phonoctonus, preying on, Dysdercus spp 6566
Phorate (O,O-diethyl S-[(ethylthio)methy
phosphorodithioate) against
Agromyzidae, on Vigna radiata 44 Amrasca biguttula, on potato 2494
2495
Aphis gossypii, on sugar-beet 6532 Atherigona soccata, on sorghum 1
2404 5041
Blissus leucopterus, on sorghum 6: Caliothrips indicus, on potato 2494 Chilo partellus, on sorghum 5573 Coccus viridis, on mandarin 5634
Chilo partellus, on sorghum 5573
Diadrotica spp. 6233
D. longicornis, on maize 312 D. virgifera, on maize 312
Dicladispa armigera, on rice 5561
Empoasca kerri on Cajanus cajan 1693 on Vigna radiata 1693
on Vigna radiata 1693 Euscyrtus concinnus, on rice 901
Hyperodes bonariensis, on Lolium
1419 Leucinodes orbonalis, on eggplant
4052
Lipaphis erysimi, on rape 1999 Magicicada spp., on apple 3470
Mericserica oberthuri, on coffee 65 Mimegralla coeruleifrons, on turmer
5509
Myzus persicae on potato 219, 2494, 2495, 3535
on sugar-beet 6532 Nephotettix virescens, on rice 1406
Nilaparvata lugens, on rice 3958, 5 Orseolia oryzae, on rice 3947
Orseolia oryzae, on rice 3947 Pempherulus affinis, on cotton 253
pests of Lolium 3439 Psila rosae, on carrot 217
Sphenophorus callosus, on maize 2
Tetranychus urticae 6716 in Acalymma vittatum, detoxification
4158
in Cajanus cajan metabolism of 1693
uptake of 1693 in cauliflower, residues of 2003
in Coccinella septempunctata, toxicity
in coffee, toxicity of 6578
in cotton-field soil, persistence of 254 in <i>Diabrotica</i> , detoxification of 4158
in Elasmus zehntneri, toxicity of 235 in flooded soil, degradation of 6215
in flooded soil, degradation of 6215 in lake mud, degradation of 6215
in rice
not affecting germination 3905 residues of 5552
in rice-fields, causing outbreaks of
Nilaparvata lugens 3389 in soil
adsorption of 1161 degradation of 1693
effects of 2141
effects of organic amendments on

movement of 1693 residues of 2003, 6251

of

```
Phorate contd.
                                                                                                              Phosalone contd.
                     in Vigna radiata
                         metabolism of
                                                       1693
                         uptake of 1693
                 Phorbia brassicae (see Delia brassicae)
                 Phoridae
                    Entomophthora culicis in, in Israel in raspberry fields, in Scotland 4997
                                                                                         1126
                    on grapefruit, in Israel 1126
parasitising, Mamestra configurata, in
Manitoba 4575
                 Phormia regina
                Octosporea muscaedomesticae in,
infectivity of 1631
preyed on by, Phidippus audax 247
Phorodon humuli
                    acephate resistance in, in Switzerland 5017
                    biology of 5611
control of 5611
                     insecticides for 3357
demeton-S-methyl resistance in, in
Switzerland 5017
                     enzymes in 5017
                    in Czechoslovakia 335
in Poland 3465, 3702
in Switzerland 5017
in UK 1912, 5611
insecticide resistance in
                                                          3357
                         detecting and measuring of 3709 detecting of 5017
                    migration in 1912
on hop
416,
                         damage caused by
in England 1912
                                                              3702
69
                    in Switzerland 5017
on Prunus, damage caused by 5611
plum pox virus in, transmission of
population dynamics of 1912
                     preyed on by, Aphidoletes aphidimyza 3465
                Phosalone (S-[(6-chloro-2-oxo-3(2H)-benzoxazolyl)methyl] O,O-diethyl phosphorodithioate)
                     against
                        Achaea janata, on castor 5710
Achaea janata, on castor 5710
Amrasca biguttula, on castor 5710
Anarsia lineatella, on peach 5615
Anthonomus rubi, on strawberry 6
Aphis craccivora, on cotton 4339
A. gossypii, on cotton 4339, 5126, 6563
                         Archips rosanus, on apple 4551
Batocera rufomaculata, on mango 9
Cydia molesta, on peach 394, 2966,
80
                               5615
                         C. pomonella 6695
on apple 381, 3469
Dacus cucurbitae 1500
                         Diacrisia obliqua, on sugar-beet 5684,
555
                                5686
                         Dichocrocis punctiferalis, on cardamom
                                283
                         Dicladispa armigera, on rice 6373,
897
                               6374
                         Diprionidae, on Pinus 5741
                         Dolichotetranychus floridanus, on
pineapple 2983
                         Earias spp., on cotton 5126
Empoasca formosana, on tea
Exelastis atomosa 3009
on Cajanus cajan 6525
Heliothis armigera
on Cajanus cajan 6525
                                                                                  2045
                             on Cajanus cajan 6525
on Cicer arietinum 202
on cotton 5126
                                                                    2021
                         Leucinodes orbonalis, on eggplant
                                1538
                         Maruca testulalis, on Cajanus cajan 6525
                         Melanagromyza obtusa, on Cajanus cajan 6525
                         Mythimna separata, on rice 5558
                         Orgyia gonostigma, on fruit trees 3464
                         Orgeolia oryzae, on rice 3947

Pandemis cerasana, on apple 4551

Pectinophora gossypiella, on cotton 5126, 6564
                        pests of grain crops 2867
pests of rice 3941
pod borers, on Cajanus cajan 6524
Pterochloroides persicae, on peach 398
Pyrilla perpusilla, on sugar-cane 5515
```

```
Scirtothrips dorsalis, on Capsicum
              6554
        stem weevils 1867
        Stomopteryx subsecivella, on groundnut
              6526
        Taeniothrips spp., on apple 5070
Thrips tabaci, on tobacco 1554
         Viteus vitifoliae, on grapevine 1965
    in Apis mellifera, toxicity of 1867
in apple orchards, effects on predatory
arthropods of 5072
    in cherry, residues of 5582
    in Corcyra cephalonica, effects on
          parasites of 2343
    in strawberry, residues of 5582
    in tomato, residues of 5702
    in Trichogramma brasiliensis, toxicity of
          2343
    in Trichogramma embryophagum, toxicity of 1706
    resistance to, in, Tetranychus urticae
          1040
    with Bacillus thuringiensis
        against
            Hyphantria cunea 5847
             Orgyia gonostigma, on fruit trees 3464
             pests of rice 3941
    with dichlorvos, against, pests of rice
3941
3941
with herbicides 2867
with oil emulsion, against, Psylla pyricola,
on pear 4888
with Verticillium lecanii, against, pests of
rice 3941
Phosdrin (see Mevinphos)
Phosfolan (diethyl 1,3-dithiolan-2-
ylidenephosphoramidate)
against
    against
       Agriotes spp., on potato 1022
Agrotis ipsilon, on cotton 2536
Heliothis armigera 1149
Spodoptera littoralis 226, 2634, 5723
on cotton 487, 4385, 4386, 4390,
5718
    Tetranychus cinnabarinus 490 formulations of
   sunlight as affecting 4391
temperature as affecting 4391
UV-irradiation as affecting 4393
in Coccinella undecimpunctata, toxicity of
2634
   2634
in cotton, persistence of 5723
in soil, adsorption of 4394
in Spodoptera littoralis
effects on amino acids of 4362, 4363
effects on fats of 4362, 4363
effects on offspring of 4375
        effects on offspring of 4375
sublethal effects of 4368, 4376, 4377
    resistance to, in
        Spodoptera littoralis
in Egypt 486
mechanisms of 4
  mechanisms of synergists for 226 with carbaryl against, Spodoptera littoralis 225 antagonistic 225 with chlordane, against, Heliothis armigera 1149
        against
        against
Heliothis armigera 1149
Spodoptera littoralis, on cotton 487
in Spodoptera littoralis, sublethal effects
of 4388
    with cyhexatin
        against, Spodoptera littoralis, on cotton
             4386
        antagonistic 4390
    with DDT, against, Heliothis armigera
         1149
    with dicrotophos, against, Heliothis
armigera 1149
with endosulfan, antagonistic 487
    with endrin
        against
    Heliothis armigera 1149
Spodoptera littoralis 225
with EPN, against, Heliothis armigera
          1149
```

4665

Zabrus tenebrioides, on wheat 2362 in Coccinella repanda, toxicity of 6725

```
Phosphamidon contd.
                                                                                                                                                                                            Phosphine contd.
Phosfolan contd.
    with fentin acetate, and maneb, against,
                                                                                                  in Coccinella septempunctata, toxicity of
                                                                                                                                                                                                against contd.
          Spodoptera littoralis, on cotton 4386, 4390
                                                                                                         1712
                                                                                                                                                                                                     pests of wheat grain 3114, 4115
                                                                                                                                                                                                    Sitophilus oryzae, in stored grain S. zeamais, in maize grain 4121
                                                                                                  in forests, effects on birds of 1582
                                                                                                  in Rhopalosiphum maidis, effects on
hemocytes of 2696
with dichlorvos, in rice-fields, causing
outbreaks of Nilaparvata lugens 3389
    with fentin hydroxide
        against, Spodoptera littoralis, on cotton
                                                                                                                                                                                                     Sitotroga cerealella, in maize grain
               4386
                                                                                                                                                                                                          4121
         antagonistic 4390
                                                                                                                                                                                                     Tribolium castaneum, in stored grain
                                                                                                  with fenitrothion, against, Tetranychidae,
on bean 1505
with permethrin, against, Choristoneura
fumiferana 541
     with HCH, against, Heliothis armigera
                                                                                                                                                                                                           4665
                                                                                                                                                                                                     Trogoderma granarium 673
    with insect growth regulators 4385
with leptophos, against, Heliothis
armigera 1149
                                                                                                                                                                                                dosage tables for 6696
                                                                                                                                                                                                fumigant for, in-transit wheat grain 4115 fumigation efficiency of 3638
                                                                                                        fumiferana
                                                                                                   with pyrethrins
                                                                                                                                                                                                in Eupelmus australiensis, toxicity of 3131
                                                                                                       against
    with mephosfolan
                                                                                                           Choristoneura fumiferana 541
on Abies 6622
on Picea 6622
        against
                                                                                                                                                                                                in sorghum grain, toxicity of 3131 in stored avocados, toxicity of 161
             Heliothis armigera 1149
             Spodoptera littoralis, on cotton 487
                                                                                             Phosphatase
in soil, crotoxyphos degradation by 5271
in Spodoptera eridania larval mid-gut 41
pesticide degradation by 3198
Phosphatase, acid
in Choristoneura fumiferana cell lines,
effects of Bacillus thuringiensis on
    with methomyl
                                                                                                                                                                                                in stored bananas, toxicity of 1615
                                                                                                                                                                                                in stored eggfruits, toxicity of
in stored papayas, toxicity of
                                                                                                                                                                                                                                                           1615
        against
                                                                                                                                                                                                                                                           1615
             Heliothis armigera 1149
                                                                                                                                                                                                in stored peppers, toxicity of 1615 in stored tomatoes, toxicity of 1615
             Spodoptera littoralis, on cotton 487
         antagonistic 1149
         in Spodoptera littoralis, sublethal effects
                                                                                                                                                                                                in Tribolium castaneum, uptake of
               of 4388
                                                                                                                                                                                                in Trogoderma granarium, effects of
                                                                                                                                                                                                       temperature on susceptibility to 673
    with monocrotophos
                                                                                                  in Drosophila, variability of 6093
                                                                                                  in Dysdercus cingulatus eggs, activity pattern of 2688
         against
                                                                                                                                                                                                in wheat grain
Spodoptera littoralis 225
on cotton 487
Phosmet (S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl] O,O-dimethyl
phosphorodithioate)
                                                                                                                                                                                                    determining applied dosages of 4669 residues of 3114
                                                                                                  in fowl yolk sac, effects of malathion on
                                                                                                        4161
                                                                                                                                                                                                resistance to, in
                                                                                              Phosphatase, adenosine tri-
                                                                                                                                                                                                     pests of stored products 3109
                                                                                                  in Locusta migratoria flight muscles, localisation of 4248
                                                                                                                                                                                                     .
Rhyzopertha dominica
                                                                                                                                                                                                         in India 6640
        Cydia molesta, on peach 3486, 3998
C. pomonella, on apple 381
Dichocrocis punctiferalis, on mulberry
                                                                                                   magnesium-activated
                                                                                                      lagnestum-activated in Locusta migratoria preparation of 1790 properties of 1790 in Locusta migratoria Malpighian tubules, properties of 2193 in Spodoptera littoralis, activity pattern of 4359
                                                                                                                                                                                                         mechanisms of
                                                                                                                                                                                                     Sitophilus oryzae, in India 6640
                                                                                                                                                                                                     Tribolium castaneum 3667
    Hypera postica, on lucerne 4927
Panonychus ulmi, on apple 6238
Smicronyx fulvus, on sunflower 6259
Sminthurus viridis, in pastures 5868
in apple orchards, effects on predatory
arthropods of 5072
in Cales noacki, toxicity of 3493
in Macrocentrus ancylivorus, toxicity of
                                                                                                                                                                                                         in India 6640
                                                                                                                                                                                                use of 1115
                                                                                                                                                                                                with bromomethane, against, Trogoderma
                                                                                                                                                                                                       granarium 673
                                                                                                                                                                                            Phosphinothioic amide, P,P-bis(1-aziridinyl)-
N-methyl-, sterilant for, Anthonomus
grandis 1049, 2726
Phosphodiesterase, in Spodoptera eridania
larval mid-gut 41
Phosphofluoridic acid
                                                                                                   potassium-sodium-activated
                                                                                                       in Locusta migratoria
                                                                                                           preparation of 1790
properties of 1790
                                                                                              relation between respiration, active
transport and 2209
Phosphatase, alkaline
     with carbophenothion, in Cales noacki,
toxicity of 3493

Phosphamide (see Dimethoate)
                                                                                                                                                                                                bis(1-methylethyl) ester
in Galleria mellonella, inhibiting JH
                                                                                                  in Dysdercus cingulatus eggs, activity pattern of 2688
Phosphamidon (2-chloro-3-(diethylamino)-1-methyl-3-oxo-1-propenyl dimethyl
                                                                                                                                                                                                            esterase 3268
                                                                                                                                                                                           esterase 3268
in Manduca sexta, not inhibiting
epidermal JH esterase 3252
in Trichoplusia ni, not inhibiting
juvenile hormone esterase 2194
Phosphofructokinase (see Kinase
(phosphorylating), phosphofructo-)
Phospholipids
in Antheraea mylitta, developmental
changes in 1237
in Antheraea mylitta pupal fat-body
4470
in Exeristes roborator, effects of dietary
                                                                                                   in Earias vittella pupa, activity pattern of
                                                                                                         1794
                                                                                              1794
in Spodoptera littoralis
aminocarb inhibition of 4156
leptophos inhibition of 6710
Phosphatase, glucose 6-, in fowl liver,
stimulated by DDT 1709
Phosphatase, phosphorylase, in Manduca
sexta fat-body 736
     against
        Aleurolobus marlatti, on mulberry
Anarsia lineatella, on peach 5615
         Antigastra catalaunalis, on sesame
                4055
        Aphis gossypii, on cotton 6563
Argyroploce leucaspis, on Litchi
chinensis 6497
                                                                                              Phosphate
in lentils, effects of insecticides on 4401
in Phaseolus vulgaris seeds, effects of
insecticides on 4401
in Vicia faba seeds, effects of insecticides
        Atherigona approximata, on Pennisetum
americanum 1928
Bemisia tabaci, on tomato 5703
Brevennia rehi, on rice 6398
                                                                                                                                                                                                in Exeristes roborator, effects of dietary
glucose on 3255
in grain mites 3755
        Choristoneura fumiferana 541
on Abies 6622
on Picea 6622
                                                                                                        on 4401
                                                                                                                                                                                                in Hydrous triangularis neurosecretory
                                                                                                                                                                                                       system 2211
                                                                                                   in wheat grain, effects of insecticides on
                                                                                                                                                                                                in Icerya purchasi, incorporation of dietary acetate into 4753
                                                                                                         4401
                                                                                              Phosphate rock, with sulfur, against, pests of stored products 2598
Phosphatidic acids, in grain mites 3755
Phosphatidylcholines (see Lecithins)
Phosphatidylethanolamines, in grain mites 3755
         Cydia molesta, on peach 5615
Diacrisia obliqua, on sugar-beet 5686
Dichocrocis punctiferalis, on castor
                                                                                                                                                                                            in insects, digestion and absorption of, review 3742

Phosphomutase, glucose, in Chilo suppressalis, activity during diapause of 3384
         Eriosoma lanigerum, on apple 5071
Exelastis atomosa 3009
Lipaphis erysimi, on rape 2468
                                                                                               Phosphatidylinositols, in grain mites 375
Phosphatidylserines, in grain mites 3755
                                                                                                                                                                                             Phosphonic acid, (2-chloroethyl)- (see
                                                                                                                                                                                                   Ethephon)
         Melanaphis sacchari, on sugar-cane
                                                                                                                                                                                            Phosphonic acid, ethyl-
diethyl ester
                290
                                                                                               Phosphine
         Nezara viridula, on soyabean 652
Nilaparvata lugens, on rice 3961
                                                                                                   against
                                                                                                                                                                                            against
Atta bisphaerica 188
A. laevigata 188
Phosphonic acid, [(ethylthio)methyl]
                                                                                                       Balanogastris kolae, in Cola nuts 6664
Batocera rufomaculata, on mango 991
Callosobruchus maculatus, in Vigna
radiata seeds 445
         Perissopneumon tectonae, on guava
1997
        pests of potato 3019
Sitobion rosaeiformis, on rose 5137
Stomopteryx subsecivella, on groundnut
                                                                                                       Caryedon serratus, in tamarinds 5834
Ceratitis capitata, in stored papayas
                                                                                                                                                                                                diethyl ester
against
                                                                                                                                                                                            against

Atta bisphaerica 188

A. laevigata 188

Phosphonic acid, phenyl-
4-bromo-2,5-dichlorophenyl methyl ester in cheese, leptophos product 5983 in vegetables, removing residues of 6721
        Sundapteryx biguttula, on castor 4054
Tetranychus urticae 1040, 6716
Toxoptera citricida, on Citrus 5624
Tryphactothrips rutherfordi, on
mulberry 378
Vicarlale is corrette on prometronate
                                                                                                        Contarinia sorghicola, in sorghum grain
                                                                                                        Dacus cucurbitae, in stored papayas
                                                                                                              1615
                                                                                                       D. dorsalis, in stored papayas 10
Ephestia elutella 1147, 3638
pests of cacao beans 6646
pests of stored grain 1115, 3636
pests of stored groundnuts 3145
         Virachola isocrates, on pomegranate 5643
                                                                                                                                                                                            Phosphonic acid, (2,2,2-trichloro-1-
hydroxyethyl)-, dimethyl ester (see
Trichlorphon)
```

Phosphonodithioic acid, ethyl-

S-(4-chlorophenyl) O-ethyl ester against

Ctenicera pruinina, on potato 3536 Limonius canus, on potato 3536 O-ethyl S-phenyl ester (see Fonofos)

Phosphonothioic acid, ethyl-, O-ethyl O-(2,4,5-trichlorophenyl) ester (see Trichloronate)

Phosphonothioic acid, phenyl-O-(4-bromo-2,5-dichlorophenyl) O-methyl ester (see Leptophos) O-(4-cyanophenyl) O-ethyl ester (see Cyanofenphos)

O-ethyl O-(4-nitrophenyl) ester (see EPN) Phosphoramidic acid, 1,3-dithietan-2-ylidene-, diethyl ester (see Fosthietan) Phosphoramidic acid, 1,3-dithiolan-2-

ylidene-, diethyl ester (see Phosfolan) Phosphoramidic acid, (4-methyl-1,3dithiolan-2-ylidene)-, diethyl ester (see Mephosfolan)

Phosphoramidothioic acid
O,S-dimethyl ester (see Methamidophos)
O-ethyl S-phenyl ester, in Trichoplusia ni,
inhibiting juvenile hormone esterase 2194

Phosphoramidothioic acid, acetyl-, O,Sdimethyl ester (see Acephate)

Phosphoric acid

hosphoric acid
mephosfolan photoproduct 2146
4-bromo-2-chlorophenyl ethyl ester, in
soil, profenofos photoproduct 1713
2-bromo-1-(2,4-dichlorophenyl)ethenyl
diethyl ester (see Bromfenvinfos)
2-bromo-1-(2,4-dichlorophenyl)ethenyl
dimethyl ester
against, Musca domestica 3218, 5972
in Musca domestica, cholinesterase
inhibition by 5972
calcium salt (2:3)

calcium salt (2:3)

against

Acarus siro 3652 Tyrophagus spp. 3652 in Tribolium castaneum, effects on

cuticular hydrocarbons of 6176 in Tyrophagus putrescentiae, effects of 3652

7-chlorobicyclo[3.2.0]hepta-2,6-dien-6-yl dimethyl ester (see Heptenophos) 2-chloro-1-(2,4-dichlorophenyl)ethenyl diethyl ester (see Chlorfenvinphos) 2-chloro-3-(diethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester (see Phosphamidon)

1-propenyl dimethyl ester (see Phosphamidon)
3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl diethyl ester, in Carausius morosus, effects on neurosecretory system of 2633
2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl ester, (Z)- (see Tetrachlorvinphos) diammonium salt, attractant for, Dacus oleae 1476
1,2-dibromo-2,2-dichloroethyl dimethyl ester (see Naled)
2,2-dichloroethenyl dimethyl ester (see Dichlorvos)

Dichlorvos)

diethyl ester, mephosfolan photoproduct

diethyl methyl ester, mephosfolan photoproduct 2146 diethyl 4-(methylsulfinyl)phenyl ester, in vegetables, fensulfothion metabolite 5090

diethyl 4-(methylsulfonyl)phenyl ester, in vegetables, fensulfothion metabolite 5090

diethyl 4-nitrophenyl ester (see Paraoxon) diethyl 1-phenyl-1H-1,2,4-triazol-3-yl ester, triazophos photoproduct 4395 dimethyl ester, in soil, crotoxyphos product 5271 dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl ester, (E)- (see Monocrotophos) 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (see Dicrotophos) 4-(methylthio)phenyl dipropyl ester, against, Nephotettix cincticeps, on rice 916

Phosphoric acid contd.

monoammonium salt, for preventing hydrolysis of pesticides by alkaline waters 2134

monoethyl ester, mephosfolan photoproduct 2146

monopotassium salt, for preventing hydrolysis of pesticides by alkaline waters 2134

triphenyl ester, synergist for, malathion 1110, 1608, 1701

tris(methylphenyl) ester
with chlorpyrifos, antagonistic 4387
with cypermethrin, antagonistic 4387
with Du Pont 1642, antagonistic 4387 with endosulfan, antagonistic 4387 with endrin, antagonistic 4387

tris(2-methylphenyl) ester, in Acheta domestica, effects of 6095 Phosphorodiamidic fluoride, tetramethyl-

(see Dimefox)

Phosphorodithioic acid

S-[2-chloro-1-(1,3-dihydro-1,3-dioxo-2Hisoindol-2-yl)ethyl] O,O-diethyl ester (see Dialifos)

S-[(4-chloro-5-methyl-3-oxo-2(3H)-isoxazolyl)methyl] O,O-diethyl ester, against, Myzus persicae 1209
S-[(6-chloro-2-oxo-3(2H)-

benzoxazolyl)methyl] O,O-diethyl ester (see Phosalone)

S-[[(4-chlorophenyl)thio]methyl] O,Odiethyl ester (see Carbophenothion) S-[(4,6-diamino-1,3,5-triazin-2-yl)methyl]

O,O-dimethyl ester (see Menazon)
O-(2,4-dichlorophenyl) O-ethyl S-propyl

ester (see Prothiofos)

O,O-diethyl S-[(ethylsulfinyl)methyl] ester,

in flooded soil, phorate product O,O-diethyl S-[(ethylsulfonyl)methyl] ester, in flooded soil, phorate product

O,O-diethyl S-[2-(ethylthio)ethyl] ester (see Disulfoton)

O,O-diethyl S-[(ethylthio)methyl] ester

(see Phorate)
O,O-diethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] ester (see Azinphos-

S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl] O,O-dimethyl ester (see Phosmet)

O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester (see Dimethoate)
O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] ester (see Azinphosmethyl)

methyl)
S-[((1,1-dimethylethyl)sulfinyl]methyl]
O,O-diethyl ester, in Pterostichus
chalcites, toxicity of 1394
S-[((1,1-dimethylethyl)sulfonyl]methyl]
O,O-diethyl ester, in Pterostichus
chalcites, toxicity of 1394
S-[((1,1-dimethylethyl)thio]methyl] O,Odiethyl ester (see Terbufos)
S,S'-1,4-dioxane-2,3-diyl O,O,O',O'tetraethyl ester (see Dioxathion)

tetraethyl ester (see Dioxathion)
O-ethyl S,S-dipropyl ester (see

Ethoprophos)
O-ethyl O-[4-(methylthio)phenyl] S-propyl
ester (see Sulprofos)
S-[(ethylsulfinyl)methyl] O,O-bis(1methylethyl) ester

against Aphis craccivora 1712 A. gossypii 1712 Lipaphis erysimi 1712 Uroleucon carthami 1712 in Coccinella septempunctata, toxicity

S-[2-(ethylthio)ethyl] O,O-dimethyl ester (see Thiometon)

S-[2-(formylmethylamino)-2-oxoethyl]
O,O-dimethyl ester (see Formothion)
S-[(5-methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl)methyl] O,O-dimethyl ester (see Methidathion)
S'(see Methidathion)

S,S'-methylene O,O,O',O'-tetraethyl ester (see Ethion) S-[2-(2-methyl-1-piperidinyl)-2-oxoethyl] O,O-dipropyl ester (see Piperophos)

Phosphorothioic acid

O-(4-bromo-2-chlorophenyl) O,O-diethyl ester

acaricidal activity of 652 insecticidal activity of 652 O-(4-bromo-2-chlorophenyl) O-ethyl S-propyl ester (see Profenofos) O-(4-bromo-2,5-dichlorophenyl) O,O-

diethyl ester (see Bromophos-ethyl) O-(4-bromo-2,5-dichlorophenyl) O,Odimethyl ester (see Bromophos)
O-[5-chloro-1-(1-methylethyl)-1H-1,2,4triazol-3-yl] O,O-diethyl ester (see

Isazophos)

S-(4-chlorophenyl) O,O-dimethyl ester against

Loxostege sticticalis 6700 Sitobion avenae, on grain crops 6349

in barley, toxicity of 6349 in oats, toxicity of 6349 in wheat, toxicity of 6349 phytotoxicity of 6700 O-(2-chlorophenyl) O-ethyl S-propyl ester,

in water, profenofos photoproduct

O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl ester (see Iodofenphos)
O-[2,5-dichloro-4-(methylthio)phenyl]
O,O-diethyl ester (see also

O,O-dietnyl ester (see also Chlorthiophos)
O,O-diethyl O-[2-(ethylthio)ethyl] ester (see Demeton-O)
O,O-diethyl S-[2-(ethylthio)ethyl] ester (see Demeton-S)
O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester (see Diazingn) Diazinon)

Diazinon)
O,O-diethyl O-[4-(methylsulfinyl)phenyl]
ester (see Fensulfothion)
O,O-diethyl O-[4-(methylsulfonyl)phenyl]
ester, in vegetables, fensulfothion
metabolite 5090
O,O-diethyl O-(4-nitrophenyl) ester (see

Parathion) O,O-diethyl Ó-(5-phenyl-3-isoxazolyl)

ester chemical properties of 641

in vertebrates, toxicity of 641 insecticidal activity of 641 residues of 641 c.O.-diethyl O-(1-phenyl-1H-1,2,4-triazol-3-yl) ester (see Triazophos) O.O-diethyl O-pyrazinyl ester (see Triazophos)

Thionazin)

Thionazin)

O,O-diethyl O-2-quinoxalinyl ester (see Quinalphos)

O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (see Chlorpyrifos)

O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O,O-diethyl ester (see Pirimiphos-ethyl)

O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O,O-dimethyl ester (see Pirimiphos-methyl)

O-(1,6-dihydro-5-methoxy-1-methyl-6-oxo-4-pyridazinyl) O-ethyl O-(1-methylethyl) ester 4-pyridazinyl) O-ethyl O-(1-methylethyl) ester acaricidal activity of 640 anti-cholinesterase activity of 640 in rat, toxicity of 640 insecticidal activity of 640 O-(1,6-dihydro-6-oxo-1-phenyl-3-pyridazinyl) O,O-diethyl ester, against, Contarinia sorghicola, on sorghum 3076

39/6
O,O-dimethyl S-[2-(methylamino)-2oxoethyl] ester (see Omethoate)
O,O-dimethyl S-[2-[[1-methyl-2(methylamino)-2-oxoethyl]thio]ethyl]
ester (see Vamidothion)
O,O-dimethyl O-[3-methyl-4(methylthio)phenyl] ester (see
Fenthion)

Fenthion)

O,O-dimethyl O-(3-methyl-4-nitrophenyl)

o.O.-dimethyl O-(3-methyl-4-nitrophenyl) ester (see Fenitrothion)
O.O-dimethyl O-(4-nitrophenyl) ester (see Parathion-methyl)
O.O-dimethyl O-(2,4,5-trichlorophenyl) ester (see Fenchlorphos)
O.O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester (see Chlorpyrifos-methyl) methyl)

Phosphorothioic acid contd. Phoxim contd. Phthorimaea operculella contd S-[[(1,1-dimethylethyl)sulfinyl]methyl] preyed on by, Chrysopa rufilabris 4245 against contd. reproductive system in 4251, 4252, 4253 seasonal abundance of 1021, 3534 traps for 1021, 1605, 3534 O.O-diethyl ester, in Pterostichus chalcites, toxicity of 1394
S-[[(1,1-dimethylethyl)sulfonyl]methyl] Gryllotalpa spp., on tobacco 1554 Phyllophaga spp., on maize 4506 Rhyzopertha dominica 6654 O,O-diethyl ester, in Pterostichus chalcites, toxicity of 1394 phthorimaeae, Campoplex phthorimaeae, Chelonus Sitophilus granarius, in wheat grain 595 cnaicies, toxicity of 1394
S-[[(1,1-dimethylethyl)thio]methyl] O,O-diethyl ester, in Pterostichus chalcites, toxicity of 1394
O-(6-ethoxy-2-ethyl-4-pyrimidinyl) O,O-dimethyl ester (see Etrimfos)
O-ethyl O-phenyl S-propyl ester S. oryzae 6654 Spodoptera frugiperda 2310 S. littoralis 223, 4381 on cotton 5718 Phycita, on Achras zapota, in Karnataka 1464 Phycita infusella in India 2039 Tribolium castaneum 6654 on cotton, effects of sowing date on 2039 T. confusum, in wheat grain Phycitidae against Trogoderma granarium 6654 in eggplant, persistence of 5707 flight activity in 3771 Eurygaster integriceps, on wheat 670 in Central Europe 4738 Phycitinae, in stored products, imported into UK 3658

phycitis, Eutettix (see Hishimonus phycitis)

phycitis, Hishimonus (Eutettix) in jute sacking, persistence of Oscinella frit, on wheat 670 in lentils Oscinella Irit, on wheat 670 Schizaphis graminum, on wheat 670 insecticidal activity of 6712 nematicidal activity of 6712 Octhyl S-propyl O-(2,4,6-trichlorophenyl) ester (see Trifenofos)
O-ethyl O-(2,4,5-trichlorophenyl) ester, against, Cydia pomonella, on apple 2945 effects on composition of 4401 residues of 4397 in *Phaseolus vulgaris* seeds Phygadeuon wiesmanni in Norway 5013 effects on composition of residues of 4397 in tomato, residues of 4396 in Vicia faba, residues of 4396 in Vicia faba seeds parasitising, Rhagoletis alternata, in Norway 5013 phyllanthi, Perissopneumon 2945
S-[2-(ethylsulfinyl)ethyl] O,O-dimethyl ester (see Oxydemeton-methyl)
O-[2-(ethylthio)ethyl] O,O-dimethyl ester (see Demeton-O-methyl)
S-[2-(ethylthio)ethyl] O,O-dimethyl ester (see Demeton-S-methyl)
O,O'-(thiodi-4,1-phenylene) O,O,O',O'-tetramethyl ester (see Temephos)
Phosphorotrithioic acid
S S.dibutyl O,Dhenyl ester synergist for phyliantni, Perissopneumon
Phyllobius argentatus
in Czechoslovakia 5201
in woodland, in Czechoslovakia 5
Phyllobius betulinus
in Czechoslovakia 5201 effects on composition of 4401 residues of 4397 in wheat grain, effects on composition of 4401 resistance to, in, Spodoptera littoralis, in Egypt 486

Phoxim-methyl (3-methoxy-6-phenyl-2,4-dioxa-5-aza-3-phosphahept-5-ene-7-nitrile in woodland, in Czechoslovakia 5201 Phyllobius pyri
biology of 1764
food-plants of 4203
in Czechoslovakia 3-sulfide) in wheat grain, residues of 1113 in wheat products, residues of 1113 S,S-dibutyl O-phenyl ester, synergist for, azinphos-methyl 1150 in Czechoslovakia 5201
in Sweden 1764
in West Germany 4203
in woodland, in Czechoslovakia 5201
on Betula pendula 1764
on Prunus padus 1764
taxonomy of, characters distinguishing P.
vespertinus and 1764, 4203
Phyllobius vespertinus
food-plants of 1764, 4203
in West Germany 4203
taxonomy of, characters distinguishing P.
pyri and 1764, 4203
Phyllocnistis citrella
biology of 2968
control of, insecticides for 2968
in Afghanistan 2968
on Citrus, in Afghanistan 2968 5201 Phragmataecia gummata, parasitised by, Tumidiclava spp. 1379 Phragmatobia fuliginosa in USSR 2106 O-phenyl S,S-dipropyl ester, synergist for, azinphos-methyl 1150 S,S,S-tributyl ester, synergist for, azinphos-methyl 1150 Oospora sajanica in, in Siberia 2106

phragmitellus, Chilo

Phragmites australis

Chilo phragmitellus on, in France 1258

Porphyrophora hamelii on, in Armenia
2847 S,S,S-tripropyl ester, synergist for, azinphos-methyl 1150 Phosphorus in Metopolophium dirhodum, and in oats 874 in Phaseolus, effects on Aphis craccivora of 4340 Steneotarsonemus badulini on, in USSR of 4340
in Pinus sylvestris, utilisation by
Neodiprion sertifer of 5756
in Vigna unguiculata, effects on Aphis
craccivora of 4340
Phosphorus, radioactive (32P), Dacus
cucurbitae labelled with 2272 5019 phragmiteticola, Cyphon Phrontosoma usta
sp. nov., description of 1178
on Cornus, in North America Phrynosoma cornutum on Citrus, in Afghanistan 2968

Phyllocoptes abaenus
descriptions of 5075
in West Germany 5075
on Prunus, in West Germany 5075

Phyllocoptes balanites
sp. now description of 202 Phosphorylase, glycogen
in Chilo suppressalis, activity during
diapause of 3384 foraging in 4974 preying on, *Pogonomyrmex* spp., in New Mexico 4974 diapause of 3384
in Hyalophora cecropia fat-body,
regulation of 4241
Phosphorylase kinase (see Kinase
(phosphorylase)
Phosphorylase phosphatase (see
Phosphatase, phosphorylase)
Phostoxin (see Phosphine [from aluminum
phosphide])
Phosvel (see Leptophos)
Photinus pyralis, chlordimeform in, mode of
action of 3196
Photodieldrin (see 2,4,6-Metheno-2Hcyclopenta[4,5]pentaleno[1,2-b]oxirene,
2a,3,3,4,5,5a-hexachlorodecahydro-)
Photography, aerial Phryxe caudata, embryonic development in, in artificial media 1200 Phthalic acid (see 1,2-Benzenedicarboxylic sp. nov., description of 393 in Egypt 393 on Balanites aegyptiaca, in Egypt 393 Phyllocoptes gracilis biology of 3455 in USSR 3455 acid) Phthorimaea operculella
Bacillus cereus in, pathogenicity of 2618
biology of 4045
brush organs in 4745 control of antifeedants for 3878 biological 2653, 4045, 5948 cultural 3534, 4045 fumigants for 6696 insecticides for 3878 on raspberry, varietal preferences of 3455 Phyllocoptes hypofrons sp. nov., description of 2656 in USA 2656 demographic performance of 6267 EPPO data sheet on 4703 fecundity in 2025 in Australia 5948 Photography, aerial for assessing insect damage to pastures on Quercus garryana, in California 2656
Phyllocoptes malifoliae (see Cecidophyes
malifoliae) 5878 Phyllocoptes pruni
sp. nov., description of 393
in Egypt 393
on plum, in Egypt 393
Phyllocoptes salmaliae
sp. nov., description of 3726
in India 3726
on Bankar malabaricum in V pest monitoring by 4721 in Egypt 2500 in Morocco 1605 in New Zealand 4045 in USA 1021, 3534 Photosynthesis Photosynthesis
in almond, effects of Tetranychus
pacificus on 3992
in fruit trees, effects of aphids on 2437
in grapevine, effects of Eotetranychus
pruni on 1964
in strawberry, effects of Tetranychus
urticae on 2426
Photuris pensylvanica, Phidippus audax not
preying on 247
Phoxim (4-ethoxy-7-phenyl-3,5-dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile 4-sulfide)
against in stored potatoes, assessing infestations of 1605 mating in 3767 on Bombax malabaricum, in West Bengal 3726 on potato on potato assessing infestations of 1605 effects of irrigation on 3534 in California 1021 in New Zealand 4045 on tomato, in Egypt 2500 oviposition in 2025 Phyllocoptruta citri
sp. nov., description of 403
in Egypt 403
on mandarin, in Egypt 403
on orange, in Egypt 403
Phyllocoptruta oleivora
control of, acaricides for 5623
in Brazil 5623
on Citrus in Brazil 5623 Agriotes spp., on potato 1022 Aphis gossypii, on eggplant 5707 Callosobruchus chinensis, in Vigna parasitised by Agathis unicolorata 2339 Chelonus blackburni 281: Temelucha minuta 4461 on Citrus, in Brazil 5623 radiata seeds 5832 2815 Dicladispa armigera, on rice 6373 Estigmene acraea 2310 on grapefruit, damage caused by 29 on orange, damage caused by 2970

photoperiod as affecting 468

uojeci index		1081
Phyllocoptruta oleivora contd. predators of, effects of acaricides on	Phyllonorycter ringoniella contd. parasitised by	Physalis contd. Heliothis subflexa on, in Colombia 6023
5623 taxonomy of, characters distinguishing <i>P</i> .	Holcothorax testaceipes, in Japan 1457 Sympiesis spp., in Japan 1457	Physalis floridana, potato leaf roll virus in, aphid transmission of 2028
citri and 403 Phyllognathus silenus	population dynamics of 1457 Phyllonorycter ulmifoliella	Physalis minima, Ferrisia virgata on, in Andhra Pradesh 2350
distribution of 4296	in UK 4622	physapus, Thrips
in Italy 4296 Phyllonorycter	mortality in 4622 on <i>Betula</i> , in England 4622	Physatocheila confinis in Czechoslovakia 4648
control of, insecticides for 1976	parasites of, in England 4622	on pear, in Czechoslovakia 4648
on apple in British Columbia 385	Phyllophaga Beauveria bassiana in, in Mexico 1660	on Quercus, in Czechoslovakia 4648 Physcus testaceus
in Ohio 1976	control of, insecticides for 4506 on Cynodon magennisii, in Florida 3445	biology of 2949 in USSR 2949
parasitised by	on maize	parasitising, Lepidosaphes malicola, in
Achrysocharoides spp., in UK 6013	in Costa Rica 4506 in Mexico 1660	Armenia 2949 Physocarpus opulifolius, Calligrapha spiraea
Sympiesis yuekseli, in British Columbia 385	Phyllophaga anxia flight activity in, effects of temperature on	on, in Pennsylvania 5761 Physorhinini, in USSR 11
preyed on by, Holcocephala fusca, in Virginia 3350	4147	Phytobia cepae (see Liriomyza cepae)
Phyllonorycter blancardella	in Canada 4147, 6303 parasitised by	Phytobia setosa in USA 4941
control of insecticides for 1979	Pelecinus polyturator, in Quebec 6303	on Acer saccharum, not affecting sap
timing of 1979	Tiphia berbereti 1939 Phyllophaga crinita	sugar content 4941 Phytocerus, gen. nov., description of 2761
development in, effects of temperature on 1979	flight activity in, effects of rainfall on 2234	Phytocerus desertorum sp. nov., description of 2761
in Canada 1979	in USA 2234	in Israel 2761
in Italy 209, 6457 in USA 2950	mortality in, effects of soil moisture on 2234	Phytocoptella avellanae (see Phytoptus avellanae)
on apple	oviposition in, effects of soil moisture on 2234	Phytocoris alpinus sp. nov., description of 1067
forecasting infestations of 1979 in Italy 6457	Phyllostachys, Schizotetranychus	in Canada 1067
on pear, in Italy 6457 outbreaks of 2950	nanjingensis on, in China 4866 Phyllotreta	on Pinus contorta, in Alberta 1067 Phytocoris brooksi
parasites of, in Illinois 2950	attractants for 5094	sp. nov., description of 1067
Phyllonorycter cavella in UK 4622	control of insecticides for 1490, 3512, 3813	in Canada 1067 on Quercus macrocarpa
mortality in 4622 on Betula, in England 4622	threshold for 4022 in Israel 4020	in Manitoba 1067 in Saskatchewan 1067
parasites of, in England 4622	on beetroot, in Finland 1490	Phytodietini
Phyllonorycter harrisella in UK 4622	on cabbage damage caused by 4022	in India 6015 taxonomy of 6015
mortality in 4622	in Indiana 3512	Phytodietus
on Quercus, in England 4622 parasites of, in England 4622	on cauliflower, damage caused by 4022 on crucifers, in Finland 1490	in India 6015 taxonomy of 6015
Phyllonorycter insignitellus, in Yugoslavia 6433	on rape, in France 3813 Phyllotreta armoraciae	Phytoecia, in Spain 714 Phytoecia julii (see P. nigricornis julii)
Phyllonorycter lautella	food-plants of, selection of 282	Phytoecia nigricornis julii, on Artemisia
in UK 4622 mortality in 4622	on horseradish, phagostimulants for 1367	absinthium 1905 Phytometra
on Quercus, in England 4622	Phyllotreta bipustulata	flight activity in 5378
parasites of, in England 4622 Phyllonorycter messaniella	biology of 4021 in Canada 4021	in Romania 5378 Phytometra gamma (see Autographa
in UK 4622 mortality in 4622	on rape, in Manitoba 4021 Phyllotreta cruciferae	gamma) Phytomonas, in, oil palm, implicated as
on Quercus, in England 4622	biology of 4019, 4021	agent of marchitez sorpresiva 1961
parasites of, in England 4622 Phyllonorycter montanella	development in, effects of temperature on 4019	Phytomyza atricornis auct. (see P. horticola)
sp. nov., description of 4478 in Pakistan 4478	in Canada 4019, 4021 on crucifers, in Ontario 4019	Phytomyza horticola control of, insecticides for 6512
on Lonicera quinquelocularis, mines of	on rape, in Manitoba 4021	in Japan 427
4478 Phyllonorycter platani	rearing of, techniques for 4019 seasonal abundance of 4021	in Yugoslavia 6433 on pea, in Honshu 427
biology of 6607	Phyllotreta robusta	parasites of, in Honshu 427 Phytomyza orobanchiae, on Orobanche
control of cultural 6607	biology of 4021 in Canada 4021	ramosa, and biological control using, in
insecticides for 6607 in USSR 6607	on rape, in Manitoba 4021 Phyllotreta striolata	USSR 1363 Phytomyza ranunculi
in Yugoslavia 2078	biology of 4021	parasites of, mortality caused by 4994
on Platanus damage caused by 6607	in Canada 4021 on rape, in Manitoba 4021	parasitised by, <i>Chrysocharis pentheus</i> 4994
in Yugoslavia 2078 Phyllonorycter populifoliella	seasonal abundance of 4021 Phyllotreta undulata	Phytomyza syngenesiae control of, insecticides for 220
in Yugoslavia 2078	food-plants of, preferences among 4018	in Netherlands 220
on Populus, in Yugoslavia 2078 Phyllonorycter quercifoliella	in UK 4018 on crucifers, in England 4018	on chrysanthemum, in Netherlands 220 Phytonomus variabilis (see Hypera postica)
in UK 4622	Phyllotrox rutilus in USA 4090	Phytophaga, in Lithuania 5387 Phytophthora
mortality in 4622 on Quercus, in England 4622	on Ceanothus sanguineus, damage caused	control of, fungicides for 3021, 3022,
parasites of, in England 4622 Phyllonorycter quinnatus	by 4090 Phylloxera caryaecaulis	3532 in
in Switzerland 6013	biology of 559	potato
in UK 6013 on Carpinus betulus, in England 6013	in USA 559 on <i>Carya ovata</i> , in Indiana 559	in RSFSR 3021 in USSR 3022, 3532
parasitised by	Phymata americana 1891 Phymata erosa 1891	Phytophthora cinnamomi, in, Metrosideros collina, damage caused by 4643
Achrysocharoides carpini in England 6013	Phymata pennsylvanica 1891	Phytophthora palmivora, in, cacao, in
in Switzerland 6013 Phyllonorycter ringoniella	phymatae, Telenomus Phymatidae, parasitised by, Telenomus	Ghana 1054 Phytoptus avellanae, mouthparts in 4413
cannibalism in 1457	phymatae 1891	Phytoptus nalepi sp. nov., description of 1769
in Japan 1457	Physalis Enitriv hirtinennis on in Tahiti 1833	in Fount 1769

Phytoptus nalepi contd.	Picea abies	Pieris brassicae contd.
on pear, in Egypt 1769	Cinara pilicornis on, oviposition by 5147	food consumption in, effects of parasites
Phytoseiidae	DDT in, residues of 3078	on 6311
in France 2051	Dioryctria abietella on, damage caused by	granulosis virus in
in Israel 2761	556	characterization of 6671
in Utah 2439	D. schuetzeella on, damage caused by	review 3159
in citrus groves, effects of acaricides on	556 Enimatic tadalla an in Danmark 3507	growth regulators in, effects of 4166 in Bulgaria 4022
5623	Epinotia tedella on, in Denmark 3597, 5148	<u> </u>
in forests, in Moldavia 3848 in orchards		in France 1669 in India 1287
effects of insecticides on 2434	Gilpinia hercyniae on, nitrogen	in Poland 4014
in Moldavia 3848	metabolism of 4625	in Sweden 5841
in Taiwan 1995	insect pests of	in UK 1856, 3770, 4176
in pecan orchards, sampling of 5062	feeding on needles by 2581	in USSR 5963
longevity in 4992	in Italy 6592	integumental injury in, reactions to 60°
on Quercus, in Texas 3061, 3062	Ips typographus on	juvenile hormones in, developmental
phenetic variation in 5293	Diptera in tunnels of 5186 in Czechoslovakia 4620	changes in 1234
preying on, Tetranychus urticae, and		larval development in 4751
biological control using, in Australia	in Norway 2563	microwave irradiation as affecting 531:
5947	lindane in, residues of 3078 Xyloterus lineatus on, in Norway 4621	migration in 3770
reproductive capacity in 4992		mitochondrial proteins in, live weight ar
taxonomy of 2161	Zeiraphera diniana on, in Czechoslovakia 4108	4755
Phytoseiulus		monitoring abundance of 1856
in glasshouses, evaluating effects of	Picea engelmannii, Dendroctonus rufipennis	neuroendocrine disruption in, reactions
pesticides on 5970	on, effects of temperature on 2059	Massama hamburais in mathaganisity of
rearing of 2118	Picea excelsa (see P. abies) Picea glauca	Nosema bombycis in, pathogenicity of 5241
Phytoseiulus macropilis biology of 838	aminocarb in, fate of 3193	N. mesnili in
preying on, Tetranychus urticae 838	Choristoneura fumiferana on, in Ontario	in Sweden 5841
Phytoseiulus persimilis	1594, 6620, 6632	pathogenicity of 5862
activity in	Dendroctonus rufipennis on	on brussels sprouts, in England 4176
effects of substrate on 4999	in Alaska 5738	on cabbage
effects of temperature on 4999	yolk deposition by 5153	damage caused by 4014, 4022
aldicarb in, toxicity of 3812	Dryocoetes affaber on, in Alaska 5738	forecasting infestations of 5963
breeding improved strains of 2835	insect growth regulators in, persistence of	on cauliflower, damage caused by 4022
demeton-S-methyl in, toxicity of 3812	1167	parasites of, transmission of pathogens b
development in	Ips tridens on, in Alaska 5738	5841
effects of humidity on 2744	Pikonema alaskensis on, in Minnesota	parasitised by
effects of temperature on 2744	1570, 5211	Apanteles glomeratus 6311
fungicides in, toxicity of 6508	Polygraphus rufipennis on, in Alaska	in Sweden 5841
in Peru 2334	5738	A. ruficrus 2335
insecticides in, toxicity of 6508	picea, Microtheca	Diadegma fenestralis 2335
pesticides in, toxicity of 202, 229, 4050	Picea orientalis, Dendroctonus micans on,	Hyposoter spp. 2335
predation by, model 4458	in Turkey 1604	Microplitis tuberculifera 2335
preying on Tetranychus pacificus 4458	Picea pungens, Plagiognathus vitellinus on, in Canada 2069	Trichogramma spp., in France 1669 polyoxin D in, inhibition of chitin
T. urticae 2744, 3812, 4999	Picea sitchensis	synthesis by 2152
and biological control using 508,	Cinara pilicornis on, oviposition by 5147	pupae of
628	Dendroctonus micans on, in France	factors determining colour of 6113
in England 5735	3578	thermogenesis in 6053
in Irish Republic 5925	Elatobium abietinum on	pupal development in 4769
in Japan 5921	in Scotland 3063	respiratory metabolism in, developmenta
in Netherlands 193	summer survival of 5743	changes in 5323
in Ohio 229	Ips spp. on, in Oregon 548	scale defects in 2678
in Romania 5481	Picea (wood), insect pests of, in Finland	tryptophan in
in Scotland 4050	4101, 4102	excretion of 1783
rearing of, techniques for 628, 5925	piceae, Adelges	incorporation into xanthommatin of
reproduction in 1264	piceae, Cryphalus	1783
searching behaviour in, effects of	piceatus, Ceratocapsus	Pieris canidia (see Artogeia canidia)
temperature on 4999	piceus, Rhoptrocentrus	Pieris melete (see Artogeia melete)
Phytoseius coheni in Taiwan 1995	piciceps, Phaenoglyphis (see P. villosa) picina, Psylliodes	Pieris napi (see Artogeia napi) Pieris napi japonica (see Artogeia japonica
in orchards, in Taiwan 1995	picipes, Aphidius	Pieris protodice, phenotypic-induction
Phytoseius corniger, in USSR 3848	Picoides pubescens, preying on,	mechanisms in 2676
Phytoseius echinus, in USSR 3848	Dendroctonus frontalis, in Texas 2561	Pieris rapae (see Artogeia rapae)
Phytoseius huangi	Picoides villosus, preying on, Dendroctonus	Piesma maculatum, in Hungary 3314
in Taiwan 1995	frontalis, in Texas 2561	Piezodorus guildinii
in orchards, in Taiwan 1995	Picrotoxinin	control of, insecticides for 1698
Phytoseius nipponicus	analogues of, insecticidal activity of 1142	in Argentina 4442
in Japan 3841	in Musca domestica, not toxic 1142	in Brazil 1516, 2016
seasonal abundance of 3841	picta, Ceramica	insecticide susceptibility in, development
Phytoseius plumifer	picticollis, Lepidiota	changes in 1698
in Bulgaria 1964	pictipes, Synanthedon	on soyabean, damage caused by 1514,
in USSR 3848	pictus, Poekilocerus	1515, 1516 1
in vineyards, effects of pesticides on 1964	piercei, Tetranychus Pieridae	oviposition in 2016 parasitised by
Phytosol (see Trichloronate)	androconia in 4215	Telenomus mormideae
Picea	eyes in, screening pigments in 2703	in Argentina 4442
Adelges isedakii on, in Japan 1559	in Spain 5412	in Brazil 2016
A. laricis on, in Idaho 1083	phenotypic-induction mechanisms in	Trissolcus scuticarinatus, in Argentina
Adelgidae on, in France 3611	2676	4442
Ceratocapsus luteus on 2573	Pieris brassicae	Piezodorus hybneri
Choristoneura fumiferana on	ATP in, developmental changes in 4755	biology of 1513
damage caused by 3582	cannabinoid discrimination by 6344	distribution of 1513
in New Brunswick 6622	control of	in Japan 1513
Dendroctonus micans on 1604	growth regulators for 3216	on soyabean, in Japan 1513
insect pests of, in USSR 3059	insecticides for 639, 2627, 4176	parasites of, in Japan 1513
Ips typographus on	threshold for 4022, 5963	Piezostethus ater (see Dufouriellus ater)
in Norway 6589	diapause in 4844	Pig (Sus scrofa domestica)
in Sweden 6589 Lachnidae on, in Italy 2082	oxygen consumption during 1797	Baculovirus spp. in, effects of 3167
Sacchiphantes torii on, in Japan 1559	respiration during 1218 diflubenzuron in, inhibition of chitin	Pig feed, Acarus siro in, damage caused by 4131
Scolytidae on, in France 3612	synthesis by 2152	Pig housing, pest control in 5230
DULJ VIGINO CII, III I IMILOU DOLD	57.10110010 03 2172	T-9 nonning) bost control in 2520,

		1005
Pigeon pea (see Cajanus cajan)	pinetum, Neodiprion	Pinus contd.
Pigweed, redroot (see Amaranthus	Pineus	Pseudobunaea irius on, in southern Africa
retroflexus)	on Pinus	5169
Pikonema alaskensis	in Africa 5165	Rhyacionia spp. on, in Nearctic region
in Canada 5211	in South Africa 695	1176
in USA 1570, 5211 on Picea glauca, in Minnesota 1570	Pineus pini	Scolytidae on, in France 3612
parasites of	control of, biological 2653	Sirex noctilio on, in New Zealand 5764
in Maine 5211	natural enemies of, in East Africa 2653 on <i>Pinus patula</i> , in East Africa 2653	Thaumetopoea pityocampa on
in Minnesota 5211	pini, Colaspis	forecasting infestations of 5188 in Italy 3079
in Nova Scotia 5211	pini, Diprion	Tomicus piniperda on
pupae of, distribution pattern of 1570	pini, Ips	Coleoptera associated with 2074
Piles, Limnoria tripunctata in, in Puerto	pini, Pauesia	relation of Gremmeniella abietina and
Rico 4130	pini, Pineus	6602
pilicornis, Cinara	pini, Typhlodromus	Tuckerella kumaonensis on, in Uttar
pilosellus, Carpophilus pilosum, Pterocomma	piniperda, Blastophagus (see Tomicus	Pradesh 4634
pilosus, Caenoblissus	piniperda)	Xylophagus cinctus on 2661 Pinus banksiana
pilosus, Melanotus	piniperda, Tomicus (Blastophagus)	Camptozygum aequale on, in Canada
Pimaricin (see Natamycin)	piniradiatae, Schizolachnus	2069
Pimpinella anisum (stored seeds),	Pinitol (see chiro-Inositol, 3-O-methyl-)	Choristoneura pinus on
Lasioderma serricorne in, development of	pinivora, Acantholyda	forecasting infestations of 6209
2608	Pinnaspis aspidistrae in Brazil 4003	persistence of egg-mass chorions of
Pimpinella kotschyana, insecticidal activity of oil from 6173	in New Zealand 160	510 fenitrathian in persistence of 2570
Pimpla instigator	on Citrus, in Brazil 4003	fenitrothion in, persistence of 2570 Neodiprion sertifer on, in Newfoundland
in Poland 3592	on fern, in New Zealand 160	1592
parasitising, Lymantria dispar, in Poland	seasonal abundance of 4003	Pinus caribaea
3592	Pinus	Atta spp. on, in Brazil 5770
Pimpla turionellae	Acantholyda pinivora on, in USSR 5766	Dioryctria sylvestrella on, in Vietnam
accessory glands in, secretions of 3340	Adelgidae on, in France 3611	5166
host-feeding in 3740 host population quality as affecting 5189	Aphidoidea on, in South Africa 2597	Diprion spp. on, in Vietnam 5166
parasitising	Aradus cinnamomeus on, in USSR 5767 Ceratocapsus luteus on 2573	Naupactini on, in Colombia 5168
Galleria mellonella 832, 2834	Cicada lodosi on, in Turkey 1184	Pseudopantomorus latifrons on, in
Lymantria dispar 5189	Cinara cronartii on, in South Africa 557,	Colombia 5168
rearing of, techniques for 832, 4933	695	Pinus cembra, Neodiprion sertifer on, in
sex ratio in, regulation of 2834	Colaspis pini on, in Louisiana 4310	Italy 5741
Pimplopterus dubius	Cyphostethus tristriatus on, in Turkey	pinus, Choristoneura
aggregation in 5148	4095	Pinus contorta
biology of 3597 in Denmark 3597, 5148	Dendroctonus spp. on in El Salvador 5174	arthropod pests of, in Netherlands 5772 Dendroctonus ponderosae on, in British
parasitised by, Mesochorus sylvarum, in	in USA 5181	Columbia 5202, 6590
Denmark 3597	D. frontalis on	Dioryctria mutatella on, damage caused
parasitising, Epinotia tedella, in Denmark	assessing infestations of 3607	by 556
3597, 5148	damage caused by 5740	Panolis flammea on, damage caused by
seasonal abundance of 3597	forecasting infestations of 4631	3069
pinastri, Hylobius	site characteristics associated with	Phytocoris alpinus on, in Alberta 1067
Pine (see Pinus) Pine, Austrian (see Pinus nigra)	5740 stand characteristics associated with	Rhyacionia duplana on, in Scotland 5157 Pinus echinata
Pine-bark heaps, Hylobius abietis in, in	5740	Conophthorus echinatae on, in Missouri
West Germany 2076	D. micans on 1604	1577
Pine, black (see Pinus nigra)	in USSR 5767	Dendroctonus spp. on, in USA 5191
Pine, cedar (see Pinus cembra)	Dendrolimus spectabilis on, in Shangdong	D. frontalis on
Pine, eastern white (see Pinus strobus)	Province 5145	assessing infestations of 5749
Pine, jack (see Pinus banksiana)	Diprionidae on, in Italy 5741	damage caused by 2786, 4091
Pine, Japanese black (see Pinus thunbergii) Pine, loblolly (see Pinus taeda)	Ernobius oertzeni on, in Israel 2087 Hylastes ater on, in New Zealand 5778	distribution pattern of 524, 5749 in Mississippi 528
Pine, lodgepole (see Pinus contorta)	Hylobius abietis on	in North Carolina 535
Pine, longleaf (see Pinus palustris)	effects of humidity on 1290	in Texas 2561, 3589
Pine, maritime (see Pinus pinaster)	in Czechoslovakia 4088	resistance to 1098
Pine, Monterey (see Pinus radiata)	in Sweden 5206	Neodiprion excitans on, in Belize 1071
Pine, mugho (see Pinus mugo)	Hylurgus ligniperda on, in New Zealand	Rhagium inquisitor on, in Oklahoma
Pine oil	5778	5193 Tetyra bipunctata on, in Oklahoma 1079
repellent for Dendroctonus ponderosae 5202	insect pests of in El Salvador 5167	Pinus edulis
Gnathotrichus spp. 1595	in Italy 6592	Coleotechnites edulicola on
Scolytidae, on Pseudotsuga 6597	in Sweden 5747	damage caused by 576
Xyloterus lineatus 1595	in Thailand 5175	in New Mexico 575
Pine, pinyon (see Pinus edulis)	in tropics 5164	Pinus elliottii
Pine, ponderosa (see Pinus ponderosa)	in USSR 3059	Dendroctonus frontalis on, effects of
Pine, red (see Pinus resinosa)	Ips spp. on in El Salvador 5174	D. terebrans on, effects of herbicides on
Pine, Scots (see Pinus sylvestris) Pine, shortleaf (see Pinus echinata)	in USA 5181	5744
Pine, slash (see Pinus elliottii)	Lachnidae on, in Italy 2082	Dioryctria ebeli on, in USA 3090
Pine, Table Mountain (see Pinus pungens)	Lymantria dispar on, development of	D. merkeli on, in USA 3090
Pine, white (see Pinus strobus)	1587	Ips spp. on, effects of herbicides on 5744
Pineapple (Ananas comosus)	Matsucoccus matsumurae on, in Kiangsu	I. calligraphus on, tunnelling by 1087
Dolichotetranychus floridanus on, in	Province 567	Tetralopha robustella on, in Florida 5161
Brazil 2983	Neodiprion lecontei on, in North America 564	Toumeyella parvicornis on, damage
Dysmicoccus neobrevipes on, in Hawaii 1035	N. sertifer on, in USSR 1643, 2564	caused by 1086
mites on, damage caused by 4013	Pachypasa capensis on, in southern Africa	Pinus engelmanni
Pseudococcidae on, damage caused by	5169	Pityophthorus rubidus on
4013	pest control on, integrated 3825	in Arizona 1577
Trionymus internodii on, in Israel 6012	pest management on 5181	in Mexico 1577
Pineapple fields, ant control in, mirex for	Pineus spp. on, in South Africa 695	Pinus gerardiana (wood), Odontotermes
5264 Pinene (see Pinyalo[2 1 1]hent 2 and	Pissodes spp. on, in southern Africa 5169	obesus in, not developing 6660 Pinus halepensis, Pineus spp. on, in South
t-Pinene (see Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-)	Plesiodema pinetellum on, in	Africa 695
3-Pinene (see Bicyclo[3.1.1]heptane, 6,6-	Czechoslovakia 4648	Pinus kesiya
dimethyl-2-methylene-)	Prasoidea sericea on, in southern Africa	insect pests of
inetellum, Plesiodema	5169	in Thailand 5175

Piper, Thysanoptera on, galls of 4946 Pinus kesiya contd. Pinus strobus contd. Neodiprion pinetum on, in Wisconsin insect pests of contd. Piper nigrum in Zambia 5165 742 dimethoate in, residues of 2858 Pinus massoniana, Dioryctria sylvestrella on, N. sertifer on, in Italy 5741 Rhaphipodus spp. damaging support trees of, in Kerala 284 Pissodes strobi on in Vietnam 5166 2-Piperidinecarboxylic acid distribution pattern of 5162 Pinus merkusii Diprion spp. on, in Vietnam 5166 insect pests of, in Thailand 5175

Pinus montana (see P. mugo) resistance to 1101 Anacridium melanorhodon feeding not inhibited by 6271 antifeedant for, Locusta migratoria 6271 in Acacia 6271 Thyridopteryx ephemeraeformis on, in Ohio 789 Trisetacus strobi on, in Ontario 527 Pinus mugo Anacridium melanorhodon feeding not inhibited by 6271 antifeedant for, Locusta migratoria 6271 in Acacia 6271 Neodiprion sertifer on in Czechoslovakia 3579 in Italy 5741 Pinus sylvestris
aphid-parasite communities on Barypeithes austriacus on, in Austria 4638 Pinus nigra inus nigra
Cerambycidae on, in Hungary 4109
Ceratocystis spp. in, relation of beetles
and 4109
Neodiprion sertifer on, in Italy 5741
Scolytidae on, in Hungary 4109
Xyela curva on, in Italy 2080
X. graeca on, in Italy 2080 DDT in, residues of 3078

Dendroctonus micans on, in Siberia 1599 Piperonyl butoxide (5-[[2-(2-Dioryctria mutatella on, damage caused by 556 butoxyethoxy)ethoxy]methyl]-6-propyl-1,3-benzodioxole) Diprion pini on, in Italy 574 insect pests of, in USSR 582 in sacking, increasing persistence of insecticides 5824 Ips sexdentatus on, Diptera in tunnels of synergist for nergist for aminocarb 4156 bioresmethrin 3116, 3635, 3655 chlordimeform 1041 chlorobenzilate 1041 chlorpyrifos 226, 4387 cypermethrin 4387 diazinon, 6707 5186 Pinus oocarpa Diprion spp. on, in Vietnam 51 insect pests of, in Zambia 5165 lindane in, residues of 3078 Neodiprion sertifer on feeding by 5756 in Italy 5741 in Newfoundland 1592

Panolis flammea on, in UK Pinus palustris

Dendroctonus frontalis on, effects of oleoresin on 1098

Dioryctria ebeli on, in USA 3090

D. merkeli on, in USA 3090 diazinon 6707 dichlorvos 4398 dicofol 1041 dioxacarb 4398 3069 Pyrochroa coccinea on, in Turkey 1084 Pinus patula Tomicus minor on Tomicus minor on
damage caused by 1565
feeding by 5149
T. piniperda on
damage caused by 1565
feeding by 5149
Pinus sylvestris (wood), termite control in,
insecticides for 5487 Cleora herbuloti on, in southern Africa Du Pont 1642 4387 Euproctis terminalis on, in southern Africa 5169 Holocerina smilax on, in southern Africa endrin 4387 ethiofencarb fenvalerate 226, 3635 iodofenphos 4398 malathion 226, 4398 methomyl 1700 5169 Imbrasia cytherea on, in southern Africa 5169 Pinus taeda Asynapta spp. on, attack periods of 5776 Dendroctonus spp. on, in USA 5191 insect pests of, in Colombia 5170 mexacarbate 226 organophosphates permethrin 3635 phenothrin 3635 Pineus pini on, in East Africa 2653
Pinus pinaster 5972 D. frontalis on assessing infestations of 1581, 5749 damage caused by 2786, 4091 development of 5751 Matsucoccus feytaudi on, in France 159 Rhagium inquisitor on, in France 3600 phenyl methylcarbamates 680, 1696 phosfolan 226 Pinus ponderosa Coleotechnites ponderosae on, in Colorado 575 development of 5751 distribution pattern of 524, 5749 fecundity of 1561 in Georgia (USA) 5151 in Louisiana 1566 in Mississippi 528 in North Carolina 535 picrotoxinin 1142 pirimicarb 1700 pirimicarb Dendroctonus spp. on, in USA 5191 D. brevicomis on, in California 2580 Eucosma sonomana on, in Oregon 6593, proclonol 1041 propargite 1041 propargite 1041 pyrethrins 1490, 1491, 2638, 3140, 3141, 4151, 6622 tetradifon 1041 Čarolina 535 539, 542, 2561, 2565, 3589, Ips paraconfusus on, in California 555
I. pini on, in Idaho 1571
Orgyia pseudotsugata on, in New Mexico 1070, 4106 6594 in Texas with dichlorvos, antagonistic 4398 with endosulfan, antagonistic 4387 Piperophos (S-[2-(2-methyl-1-piperidinyl)-2-oxoethyl] O,O-dipropyl phosphorodithioate) 3590 mortality of 5751 resistance to 1098 Pinus pungens, Dioryctria yatesi on, in USA 3090 Dioryctria spp. on, attack periods of 5776 D. ebeli on, in USA 3090
D. merkeli on, in USA 3090
Ips avulsus on, in Texas 3590 Pinus radiata with dimethametryn, in rice-fields, effects on insect pests of 882 Coleoptera on, in Victoria 5763 Imbrasia cytherea on, in southern Africa Pipiza Î. grandicollis on, in Georgia (USA) biology of 2312 illustrations of 2312 5169 insect pests of in Australia 5797 in Chile 5173 Pipiza noctiluca
in Poland 2438
preying on, Aphididae, in Poland 2438
Piptadeniastrum africanum (wood),
Coptotermes formosanus in, resistance to
4465 Neodiprion excitans on, in Belize 1071 Oliarus vicarius associated with, in Georgia (USA) 515 Resseliella spp. on, attack periods of Ips paraconfusus on, distribution pattern of 2594 5776 Nadiasa concolor on, in southern Africa 5169 Rhyacionia frustrana on, in Georgia (USA) 1567 Rhyacionia frustrana on, in Georgia (USA) 1567

Pinus taeda phloem, diet component for, Dendroctonus frontalis 2283

Pinus thunbergii, Dendrolimus spectabilis on, feeding by 1603

Pinus wallichiana (wood), Odontotermes Pipunculidae in rice-fields, in Thailand 913 parasitic insects on, distribution pattern of pest management on 5797 predatory insects on, distribution pattern of 2594 parasitising, pests of rice, in Sarawak Pipunculus, parasitising, rice hoppers, in Thailand 911 Thaumetopoea pityocampa on, in Italy obesus in, not developing 6660 Pipunculus anomalus Pinus radiata (wood), Coptotermes lacteus in, effects of fungi on 5490 Pinus (wood) in Malaysia 2651 Ernobius mollis in, in Israel 2087 parasitising, pests of rice, in Sarawak Ernobius mollis in, in Israel 2087 insect pests of in El Salvador 5167 in Finland 4101, 4102 pest control in 5180 Sipalinus hypocrita in, in Thailand 5175 Piophila casei 5446 enzymes in 4757 fecundity in, effects of insemination on 5312 fartility in effects of insemination on Pinus resinosa 2651 Pipunculus mutillatus in Malaysia 5546 parasitising, Nephotettix spp., in West Malaysia 5546 Matsucoccus resinosae on, in USA 4938 Neodiprion lecontei on in Ontario 6619 in Quebec 6617 Schizolachnus piniradiatae on, in Ontario piri, Aphanostigma
 Pirimicarb (2-(dimethylamino)-5,6-dimethyl
 4-pyrimidinyl dimethylcarbamate) 5218 Pinus rigida, Ceratocapsus cecilsmithi on, in New Jersey 2573 Pinus roxburghii (wood), in Neotermes bosei diet, digestion of 6329 Pinus sabiniana, Trisetacus strobiphagus on, in California 2656 against fertility in, effects of insemination on 5312 aphids 5959 on fruit trees 1450 on pome fruits 209 in cheese 3116
mating in 4777
respiratory enzymes in, effects of
irradiation on 4757
Pipecolic acid (see 2-Piperidinecarboxylic on pome fruits 209
Aphis gossypii
on squash 1503
on sugar-beet 6532
Eriosoma lanigerum, on apple
Locusta migratoria 2315 Pinus strobus Diprion similis on, in Iowa 5193 Monochamus scutellatus on, in West Virginia 94

'irimicarb contd.	Pissodes strobi	Plagithmysus bilineatus contd.
against contd.	feeding bioassay for 4096	on Metrosideros collina, damage caused
Macrosiphum euphorbiae, on eggplant	in USA 1101, 5162	by 4643
2032	on Pinus strobus	planirostris, Rhinosimus
Myzus persicae 1462	distribution pattern of 5162	Planococcus
on Capsicum 6555	resistance to 1101	control of
on eggplant 2032	overwintering in 5162	biological 6582
on potato 3535, 3538	Pissodes validirostris	insecticides for 6578
on sugar-beet 6532, 6534 pests of potato 6232	in Finland 556 on <i>Pinus contorta</i> , in Finland 556	integrated 500
pests of sugar-beet 1523	on Pinus sylvestris, in Finland 556	on Citrus 2852
Sitobion avenae, on grain crops 6349	pissodis, Coeloides	on coffee
Toxoptera citricida, on Citrus 4004	Pistachio (see Pistacia vera)	in India 500
in Cales noacki, not toxic 3493	Pistacia vera	in Tamil Nadu 4083, 6582
in citrus groves, effects on predatory	Agonoscena viridis on, in Turkey 1310	on Parthenium hysterophorus, damage caused by 2852
insects of 4004	Eurytoma plotnikovi on, in Tunisia 2944	
in Coccinella repanda, toxicity of 6725	Forda hirsuta on	preyed on by, Cryptolaemus montrouzieri in Tamil Nadu 6582
in potato fields, non-target effects of	arthropods associated with 3460	Planococcus citri
3538	in Turkmenia 3460	control of
in wheat fields, effects on predatory	Megastigmus pistaciae on, in Tunisia	biological 5636
insects of 5998	2944	growth regulators for 3500, 3815
non-target effects of 5959	Slavum lentiscoides on	insecticides for 3500, 3511, 3800, 563
resistance to, in Myzus persicae	arthropods associated with 3460 in Turkmenia 3460	development in
in Netherlands 3808	pistaciae, Eurytoma	effects of food-plant on 3815
in New South Wales 1700	pistaciae, Megastigmus	effects of temperature on 3815
Therioaphis trifolii, in New South	Pistia stratiotes, Athetis hennia on, and	Entomophthora spp. in, in Queensland
Wales 4541	biological control using 2155	3510
synergists for, piperonyl butoxide as	pisum, Acyrthosiphon	flight activity in 5633
1700	Pisum sativum (see Pea)	hydroprene in, effects of 3815
toxicology of 5959	Pithecolobium, Merobruchus spp. on 1584	in Australia 3510, 3511
with azinphos-methyl, against, Myzus	Pito (see Erythrina berteroana)	in Israel 3800
persicae, on potato 3535	Pittosporum, Conchaspis angraeci on 506	in Italy 5633, 5636
irimiphos-ethyl (O-[2-(diethylamino)-6-	Pittosporum undulatum, Aspidiotus paranerii	in Togo 3029
methyl-4-pyrimidinyl] O,O-diethyl	on, in Israel 4204	in USA 3500
phosphorothioate)	pityocampa, Thaumetopoea	kinoprene in, effects of 3815
against	pityocampae, Ooencyrtus Pityogenes chalcographus	on Citrus, in Italy 5633
Anoplolepis longipes 243 Delia brassicae, on radish 5097	behavioural responses to food-plant	on grapefruit, in Texas 3500
Phyllophaga spp., on maize 4506	stimuli in 3805	on orange, in Italy 5636
irimiphos-methyl (O-[2-(diethylamino)-6-	Contortylenchus chalcographi in, reducing	on passion fruit, in Queensland 3510,
methyl-4-pyrimidinyl] O,O-dimethyl	infection rates of Protozoa 4645	3511
phosphorothioate)	flight activity in 2062	on yam, in Togo 3029
against	in West Germany 2062	parasites of
Acanthococcus aceris, on apple 4335	Malameba scolyti in, pathogenicity of	effects of insecticides on 2332, 3800,
Anoplolepis longipes 243	4645	5631
Bemisia tabaci, on tomato 5703	Menzbieria chalcographi in, pathogenicity	in Queensland 3510
Brevipalpus pulcher, on Citrus 952	of 4645	parasitised by
Cydia molesta, on peach 394 Ephestia cautella	population dynamics of 2062 Pityogenes quadridens	Anagyrus pseudococci, in Israel 3800 Leptomastix dactylopii 2332
in stored dates 3659	in Hungary 4109	predators of
in stored grain 3635	on Pinus nigra, in Hungary 4109	effects of insecticides on 3511, 3800,
Eutetranychus orientalis, on Citrus	Pityophthorus opaculus	5631
2450	in USA 5207	in Queensland 3510, 3511
Loxostege sticticalis 6700	on Abies lasiocarpa, damage caused by	preyed on by
Oryzaephilus surinamensis, in stored	5207	Chilocorus bipustulatus, in Israel 3800
dates 3659	Pityophthorus rubidus	Chrysopa carnea, in Israel 3800
pests of maize grain 3661	sp. nov., description of 1577	seasonal abundance of 3510, 3800
pests of stored grain 2603, 3130	in Mexico 1577	Planococcus lilacinus
pests of stored groundnuts 3679	in USA 1577 on Pinus engelmanni	in India 4493 on <i>Tamarindus indica</i> , in India 4493
Plodia interpunctella 1701 Sitophilus granarius 3797	in Arizona 1577	Planococcus lindingeri
S. oryzae, in stored grain 3635	in Mexico 1577	taxonomy of
S. zeamais, in maize grain 5813	placidus, Philodromus	Planococcus variabilis as synonym of
Sitotroga cerealella, in maize grain	plagiator, Ephedrus	6012
5813	Plagiodera versicolora, defensive secretion	transferred from Pseudococcus 6012
Trialeurodes vaporariorum 1870	in, components of 4767	Planococcus variabilis, taxonomy of,
Tribolium castaneum	Plagiodera versicolora distincta (see P.	synonym of P. lindingeri 6012
in stored dates 3659	versicolora)	Plandiscus, holdfast structures in 4414
in stored grain 3635	Plagiodial (see 3-Cyclopentene-1-	Plant breeding, book 1134
in wheat grain 2094	acetaldehyde, 2-formyl-α,3-dimethyl-) Plagiognathus, on Solidago, in New York	Plant growth regulators, environmental contamination with 5253
T. confusum 3797 in cucumber, toxicity of 6700	2855	Plant hopper
in stored dates, residues of 3659	Plagiognathus arbustorum	cold immobilisation as affecting 2278
in wheat grain, persistence of 2094	in Sweden 5584	natural enemies of 340
in wheat products, residues of 4119	on strawberry, in Sweden 5584	on rice, in Bangladesh 5032
resistance to, in, Sitophilus granarius	Plagiognathus chrysanthemi	Plant products, pesticides in, effects on food
5814	in Sweden 5584	value of 1708
synergists for, citrus oils as 3797	on strawberry, in Sweden 5584	Plant protection
with oil emulsion, against, Bostrichidae,	Plagiognathus vitellinus	bibliography 6734, 6735
on grapevine 942	in Canada 2069	book 622, 818
irimor (see Pirimicarb)	on Picea pungens, in Canada 2069	in Bulgaria 3183 in USSR 6689
sana, Cetonia aurata si, Ceramica (Mamestra)	Plagiolactone (see Cyclopenta[c]pyran- 3(4H)-one, 4a,5-dihydro-4,7-dimethyl-)	in West Bengal 624
si, Ceramica (Mamesira) si, Contarinia	Plagiolepis pygmaea	insecticides in, review 5436
si, Contarina si, Mamestra (see Ceramica pisi)	in Netherlands 816	systems analysis applied to 2114
sinnus, Enoclerus	in buildings, in Netherlands 816	timing of measures for 635
sivorus, Kakothrips	Plagiometriona clavata	Plant spacing (see Crop density)
sorum, Bruchus	colour change in 69	plantaginea, Dysaphis
issodes	development in 69	Plantago, Dysaphis plantaginea on, in Italy
EPPO data sheet on 3189	mating in 69	5606
interceptions of 1066	Plagithmysus bilineatus	Plantago major, Tetranychus urticae on,
on Pinus, in southern Africa 5169	in USA (Hawaii) 4643	development of 5102

arthropod pests of, in West Malaysia 4723	in Japan 5737 in South Korea 5737	Plegaderus, on prey food-plants, distribution pattern of 2594
pests of, in Kerala 1902 Planting date (see Sowing date)	parasitising Thecodiplosis japonensis	Pleistophora in
Plants	in Japan 5737	Archips cerasivoranus, in Ontario
insects on, sequestration of chemicals by, review 5443	in South Korea 5737 Platygaster nitida	5842 Choristoneura fumiferana, in Ontario
pesticides in, metabolism of 3198, 3199,	in Poland 2996	6633
3200 pyrethroids in, metabolism of 656	parasitising, <i>Dasineura brassicae</i> , in Poland 2996	Erannis defoliaria, in West Germany 546
planus, Termitogeton	Platygaster oebalus	Operophtera brumata, in West
plasmoparae, Mycodiplosis plastographus, Ips	biology of 2997 in Poland 2996, 2997	Germany 546 Zelus exsanguis, dissemination of 4688
platani, Lithocolletis (see Phyllonorycter	parasitising, Dasineura brassicae, in Poland 2996, 2997	Pleistophora carpocapsae, in, Malacosoma neustria, not pathogenic 5242
platani) platani, Phyllonorycter (Lithocolletis)	Platygaster oryzae	Pleistophora hylobii
Platanus Corythucha ciliata on	in India 328 in Thailand 2911	sp. nov., description of 3080 in, <i>Hylobius abietis</i> , in USSR 3080
in Yugoslavia 2078	in rice-fields, effects of insecticides on	Pleistophora schubergi
resistance to 1088 Edwardsiana iranicola on, damage caused	328 parasitised by	Choristoneura fumiferana 5842
by 6607 Phyllonorycter platani on	Neanastatus grallarius, in Thailand 2911	Erannis defoliaria, in West Germany 546
damage caused by 6607	Obtusiclava oryzae, in Thailand 2911	Euproctis similis, in West Germany
in Yugoslavia 2078 Platanus occidentalis, Ceratocapsus spinosus	parasitising Orseolia oryzae	1104 Malacosoma neustria, pathogenicity of
on 2573	in Orissa 328	5242
Platanus orientalis Cyphostethus tristriatus on, in Turkey	in Thailand 2911 Platygaster sugitama	Operophtera brumata, in West Germany 546
4095	sp. nov., description of 5737	Plemeliella betulicola
Elasmucha spp. on, in Turkey 4095 Plathypena scabra	illustrations of 5737 in Japan 5737	descriptions of 5190 in birch catkins 5190
control of	parasitising, Contarinia inouyei, in	Pleolophus, in Lithuania 5390 Pleolophus basizonus
antifeedants for 4035, 6149 testing of 6191	Kyushu 5737 platyhypenae, Euplectrus	diapause in 2564
biological 459, 2041 cultural 459	Platynota control of, insecticide-fungicide mixtures	in Canada 2564 parasitising, Neodiprion sertifer, and
insecticides for 459, 6197	for 4613	biological control using, in
development in, effects of temperature on 2257, 6187	on Chrysanthemum, in Florida 4613 Platynota flavedana	Newfoundland 1592 Pleolophus brachypterus
food consumption in, effects of	in USA 4919	in USSR 5390
temperature on 6187 in USA 459, 460, 461, 1484, 2041, 4035,	on apple, in Virginia 4919 preyed on by, Araneae 4919	parasitising, <i>Pristiphora abietina</i> , in Lithuania 5390
6197	Platynota stultana	Pleroneura aldrichi
Nomuraea rileyi in, in North Carolina 460	attractants for 1729 control of, mating disruption for 1729	in USA 3066 on <i>Abies concolor</i> , in California 3066
nuclear polyhedrosis virus in, not pathogenic 609	Platypleura kaempferi control of, insecticides for 6478	parasites of, in California 3066 predators of, in California 3066
on soyabean	in Japan 6478	Pleroneura koebelei
effects of row spacing on 460 effects of sowing date on 460	on loquat, damage caused by 6478 Platypodidae	in USA 3066 on Abies concolor, in California 3066
effects of sowing rate on 460	food-plant specificity in, geographical	parasites of, in California 3066
feeding by, model 4036 in Arkansas 461	variation in 1248 in Canada 2555	predators of, in California 3066 Pleroneura lutea
in Indiana 6197 in Iowa 4035	in USA 2555 in West Malaysia 1095	in USA 3066 on Abies concolor, in California 3066
in North Carolina 2041	in pine wood, in El Salvador 5167	parasites of, in California 3066
in USA 1484 parasitised by	on mahogany, in Philippines 5184 parasitised by, <i>Monacon</i> spp. 4462	predators of, in California 3066 Plesiodema pinetellum
Apanteles marginiventris 1512	Platypria coronata	in Czechoslovakia 4648
in Arkansas 461 Rogas nolophanae, in Arkansas 461	in Ghana 362 on <i>Pueraria phaseoloides</i> , in Ghana 362	on Pinus, in Czechoslovakia 4648 pleuralis, Alloxysta
predators of, in North Carolina 460	parasites of, in Ghana 362	Pleuroloma, taxonomy of 4731
Platophion, taxonomy of, synonym of Ophion 3844	Platypus in Canada 2555	Pleuroloma flavipes, on fruit crops, feeding by 4731
platura, Delia Platycheirus	in USA 2555 taxonomy of 2555	Pleurophaeus caesus, in Tunisia 4852 pleurostigma, Ceutorhynchus
biology of 2312	Platypus cavus	Pleurotus flabellatus, in, rubber wood,
illustrations of 2312 Platycheirus albimanus	in Indonesia 4098 in Gonystylus bancanus wood, in West	responses of termites to 5226 Plictran (see Cyhexatin)
in Poland 2438	Kalimantan 4098	Plocaederus ferrugineus
preying on, Aphididae, in Poland 2438 Platycorynus peregrinus, pyrethrins in,	Platypus cupulatus in Indonesia 4098	control of insecticides for 4550
effects on neurosecretory system of 4707	in Gonystylus bancanus wood, in West Kalimantan 4098	removing larvae for 4550
Platygaster	Platypus insularis	in India 946, 4550 on cashew
competing with Torymus koebelei 833	in Indonesia 4098 in Gonystylus bancanus wood, in West	damage caused by 4550 in India 946
Zatropis capitis 833	Kalimantan 4098	Plocaederus obesus
parasitising, Rhopalomyia californica, in California 833	Platypus pseudocupulatus in Indonesia 4098	in India 946 on cashew, in India 946
Platygaster abicollis, parasitising,	in Gonystylus bancanus wood, in West	Plodia
Paradiplosis tumifex 1100 Platygaster iolas	Kalimantan 4098 Platystomidae, agonistic behaviour in 2748	cell cultures from 5433 control of 3119
in Poland 2996	Platystomini, in Japan 4187	in bakery products, damage caused by
parasitising, <i>Dasineura brassicae</i> , in Poland 2996	Platytelenomus busseolae in Ghana 4497	3119 Plodia interpunctella
Platygaster mainensis, parasitising, Paradiplosis tumifex 1100	parasitising, Sesamia spp., in Ghana 4497	attractants for, responses to 6732 Bacillus thuringiensis in, effects on mid-
Platygaster matsutama	Plautia fimbriata, in India 798	gut of 4140
sp. nov., description of 5737 illustrations of 5737	plebeia, Acrocercops plebeja, Euscelis	biology of 3128 coldhardiness in 599

		1007
Plodia interpunctella contd.	Plum contd.	Plutella xylostella contd.
control of 3128	Hemithea aestivaria on, in British	in India 4023
biological 594, 1118, 1632, 3129 fumigants for 584, 588	Columbia 1974	in Japan 6107
genetic 3758	Hyalopterus pruni on, in Poland 3465 insect pests of, in Himachal Pradesh	in Malaysia 1001, 2992, 5657 in New Zealand 5888, 5889
growth regulators for 590, 2092, 4713	2436	in UK 4307, 6736
insecticides for 1110, 1701, 3140,	insecticides in, translocation of 3194	in USA 1000, 2002, 2471, 2999, 4046,
3141, 3679	Lepidosaphes malicola on, in Armenia	6226
resistant packing containers for 2606 timing of 4671	2948 Lymantria dispar on, feeding by 948	in USSR 5839
UV-irradiation for 3647	Orgyia gonostigma on, in USSR 3464	in Yugoslavia 2107 insecticide resistance in, detecting and
DDT resistance in, in New South Wales	Pandemis heparana on, in British	measuring of 3713
1110 descriptions of 3128	Columbia 950 Parlatoria oleae on, in Greece 3799	insecticide susceptibility in, effects of post-
diapause in 773	pest control on 2433	treatment temperature on 5259
dieldrin resistance in, in New South Wales	thresholds for 5612	larval development in, effects of temperature on 2004
fenitrothion resistance in, in New South	Phyllocoptes pruni on, in Egypt 393 plum pox virus in, in UK 5611	mating in 76
Wales 1110	Resseliella oculiperda on 5066	on Brassica rapa, distribution pattern of
food of 3128	Rhynchites cupreus on, in USSR 5064	2992
genitalia in 4110 granulosis virus in	R. pauxillus on, in USSR 5064 Tetranychus piercei on, in Taiwan 705	on broccoli, in Nebraska 6226 on cabbage
characterization of 6671	Thrips carthami on, in Himachal Pradesh	damage caused by 2005, 4022
pathogenicity of 1118	5070	in Florida 1000, 2002
growth regulators in, effects of 4166 in Australia 1110, 1701, 3141	T. flavus on, in Himachal Pradesh 5070	in Georgia (USA) 2002, 2999 in Gujarat 4023
in Norway 4110	Xyleborus crassiusculus on, in North Carolina 970	in Maritime Territory 5839
in Swaziland 4662	Yponomeuta padellus on, in France	in Nebraska 6226
in Switzerland 4671 in USA 3679, 6170	5065 Plum, kaffir (see Harpephyllum caffrum)	in New South Wales 1497
in USSR 3128	Plum pox virus	in New Zealand 5888 in Victoria 5658
in West Germany 588	in	in Virginia 2471
in chocolate factories, in Switzerland	Brachycaudus helichrysi, transmission	in West Malaysia 1001, 5657
4671 in maize grain, in Minnesota 6170	of 5611 Phorodon humuli, transmission of	on cauliflower damage caused by 4022
in packaging materials, damage caused by	5611	feeding by 2004
4678	Prunus spp., in UK 5611	in Gujarat 4023
in stored grain, in West Germany 588 in stored groundnuts	plumbella, Coleophora plumifer, Amblyseius (see Phytoseius	in New Zealand 5889 on turnip, in North Carolina 4046
in Kansas 3679	plumifer)	parasites of
in New South Wales 1701	plumifer, Phytoseius (Amblyseius)	cool storage of 3518
in stored products, imported into UK 3658	plumigera, Doratopteryx plumosus, Chironomus	in Gujarat 4023 in Victoria 5658
in sultanas, in Victoria 3141	Plusia	parasitised by
malathion resistance in	control of	Apanteles ippeus, in New South Wales
in New South Wales 1110 selection for 1701	biological 3007 insecticides for 3007	1497 A. plutellae, in West Malaysia 1001
mandibular-gland secretion in	Entomophthora gammae in, in Brazil	Diadegma spp., in New South Wales
responses of parasites to 6055	5672	1497
responses to 6055 ova in, degeneration of 1230	Nomuraea rileyi in, in Brazil 5672 nuclear polyhedrosis virus in, in Brazil	D. fenestralis 2335 D. insularis, in Florida 1000
parasites of, attracted by mandibular-	5672 .	Tetrastichus ayyari, in West Malaysia
gland secretion 6055	on soyabean	1001
parasitising, Venturia canescens 111 progeny of, effects of γ-irradiation on	assessing infestations of 2014 in Brazil 3007, 5672	T. sokolowskii, in Florida 1000 Thyraeella collaris, in New South Wales
3758	parasites of, in Brazil 5672	1497
sex-pheromone gland in 4741	Plusia orichalcea (see Thysanoplusia	rearing of, diets for 809
culture methods for 4762 sex pheromone of	orichalcea) Plusia signata	reproductive system in 997 seasonal abundance of 1000, 1497
effects of UV-irradiation on 3647	in India 3893	sex pheromone of 3721
radioprotectives for 3647	nuclear polyhedrosis virus in, in	spermatophore formation in 997
responses to 6732 spermathecal gland in, setae in 6037	Karnataka 3893 on Eleusine coracana, in Karnataka 3893	traps for 6107 plutellae, Apanteles
traps for 4671	parasitised by, Chelonus blackburni 2815	pluviale, Malacosoma californicum
plorans, Eyprepocnemis	Plutarchia, parasitising, Ophiomyia phaseoli,	pluvialis, Anthomyia Pnigalio, parasitising, Agromyza oryzae, in
<i>plotnikovi, Eurytoma</i> Ploughing	in Thailand 3522 Plutella maculipennis (see P. xylostella)	Japan 346
of cotton fields, effects on Pectinophora	Plutella xylostella	Pnigalio mediterraneus
gossypiella of 491	attractants for 1135, 6736	in Italy 1473 parasitising, <i>Dacus oleae</i> , in Sardinia
of oat fields, effects on Oulema melanopus and parasites of 873	Bacillus thuringiensis in, in Yugoslavia 2107	1473
of pastures, effects on Costelytra	biology of 2467	Pnigalio soemius
zealandica of 1422	control of	in Italy 848
of rice-fields, effects on Nilaparvata lugens of 341	biological 3514, 4135, 5657, 5839, 5948, 5952	parasitising, Chrysoesthia sexguttella, in Italy 848
of sunflower fields, effects on Napomyza	companion crops for 6226	Poa
lateralis of 5120	companion crops ineffective for 2471 growth regulators for 5657	Chrysoteuchia topiaria on, in Oregon 2410
Pluchea, Nysius caledoniae on, in Hawaii 4614	insecticides for 2002, 2999, 5259,	Ochsenheimeria vacculella on, in Ontario
Plum	5261, 5657, 5839, 5888, 5889	5045
Adoxophyes orana on, in Yugoslavia	mating disruption for 1135, 4765	Spodoptera depravata on, development of 4521
5068 Aphididae on, in UK 5611	threshold for 2999, 4022 timing of 2002	Poa annua
Aphidoidea on, effects of 2437	development in, effects of temperature on	Ataenius spretulus on, in Ohio 6208
arthropod pests of, in Poland 3982	2467	insect pests of, in North America 2856
Coleophora spp. on, in Poland 2952 Cydia dimorpha on, in Honshu 2947	flight activity in 6107 hyperparasites of, in Victoria 5658	Poa pratensis Ataenius spretulus on, in Ohio 6208
C. funebrana on, forecasting infestations	in Australia 1497, 2005, 5658, 5948,	Popillia japonica on, damage caused by
of 1983	5952	1425 Poaceae
Epidiaspis leperii on damage caused by 5612	in Bulgaria 4022 in Canada 1135	Aphididae on, in India 286
in France 5608	in China 2467	Tarsonemidae on 5019
Euproctis fraterna on, in Punish 2447	in Finland 1903	podagrica, Brachymeria

Poland contd.

```
Podagrica decolorata
                                                                                               Pogonomyrmex rugosus contd.
                                                                                                   predation of, responses to 4974 preyed on by, Phrynosoma cornutum, in
     in Ivory Coast 5092
                                                                                                                                                                                                  Metopolophium dirhodum in, on grain
                                                                                                                                                                                                        crops 2875
     okra mosaic virus in, transmission of
                                                                                                          New Mexico 4974
           5092
                                                                                                                                                                                                 Monomorium pharaonis in, in dwellings
 on okra, in Ivory Coast 5092 Podagrion, in Trinidad 2768
                                                                                               Poinciana regia (see Delonix regia)
Poison ivy (see Rhus radicans)
                                                                                                                                                                                                        827
                                                                                                                                                                                                  Myrmica rugulosa in 6290
podanus, Archips
podisi, Telenomus
                                                                                                                                                                                                  Myzus persicae in, on sugar-beet 4040
                                                                                               Pokomandya, in Hungary 3311
                                                                                                                                                                                                 Orgyia antiqua in, natural enemies of 2445, 3592
Oscinella frit in, on maize 2893
O. phlei in, on maize 2893
                                                                                               Poland
Podisus maculiventris
in USA 2415, 4586, 5112, 6189
in soyabean fields, effects of insecticides
                                                                                                    Adelidae in 3246
Agrotinae in 1864
                                                                                                    Agrotis exclamationis in, natural enemies
           on 4586
                                                                                                                                                                                                 Panonychus ulmi in, natural enemies of 3475
    on 4586
insecticides in, toxicity of 3547
parasites of, in Kentucky 2415
parasitised by
Scelionidae, in Caucasus 5112
Telenomus podisi 6200
parathion-methyl in, developmental
changes in susceptibility to 458
predators of, in Kentucky 2415
                                                                                                          of 1864
                                                                                                    A. segetum in, natural enemies of 1864
                                                                                                                                                                                                  Pegomya hyoscyami in, on sugar-beet 1871, 3013
                                                                                                    Aleyrododea in 4859
                                                                                                    Andricus singulus in, on Quercus 3082
                                                                                                                                                                                                  pest control in, aerial techniques for
                                                                                                    Anthocoridae in, in apple orchards 3473
                                                                                                    Anthonomus pomorum in, on apple
                                                                                                                                                                                                  Phorodon humuli in, natural enemies of
                                                                                                          6465
                                                                                                    A. rubi in, on strawberry 6448
                                                                                                    Aphididae in, natural enemies of 2438
                                                                                                                                                                                                      pest control on
                                                                                                    Aphidoidea in 3307
         Epilachna varivestis, in Indiana 6189
Leptinotarsa decemlineata, and
                                                                                                                                                                                                  pests of 3539
Pseudococcidae in 2271
                                                                                                    Aphis fabae in, on sugar-beet 1871, 4040
                                                                                                    A. pomi in
                                                                                                                                                                                                  Psylliodes chrysocephalus in, on rape
                biological control using, in Caucasus
                                                                                                        natural enemies of 3465
                 5112
                                                                                                                                                                                                        2469
                                                                                                   on apple 6467

Asynapta spp. in, on Larix 3595

Biorhiza pallida in, natural enemies of 3593
                                                                                                                                                                                                  rape in, pest control on 1866, 2462
trail-following in 1288

Podocarpus macrophylla

Aonidiella taxus on, in Kyushu 1591

Makivora hagiyai on, in Honshu 5203

Podopidae, in Quebec 5408

Podosesia sureocincta

attractants for 6212

male genitalia in 1191

Podosesia sureocincta × P. syringse, male
genitalia in 1191

Podosesia syringse
attractants for 565, 1082
biology of 565
control of
insecticides for 565, 3085
      trail-following in 1288
                                                                                                                                                                                                  Rhopalosiphum padi in, on grain crops 2875
                                                                                                                                                                                                 Scolytus spp. in, natural enemies of 4616
Sitobion avenae in, on grain crops 2875
Sitona callosus in 1763
                                                                                                   393
Callirhytis spp. in, on Quercus 3082
Carabidae in, in forests 3605
Cerambycidae in 4615
Cerambyx cerdo in, on Quercus 3104
Ceutorhynchus napi in 1867
natural enemies of 3517
on rape 2993, 2994, 2995
C. pallidactylus in 1867
natural enemies of 3517
                                                                                                                                                                                                 pest control on 2462
pests of 4041
Syrphidae in
                                                                                                                                                                                                 sugar-beet in
                                                                                                                                                                                                      in crop fields 189
in orchards 2438
                                                                                                                                                                                                                                   1892
                                                                                                        natural enemies of 3517
                                                                                                                                                                                                      natural enemies of
                                                                                                                                                                                                                                            3995
                                                                                                        on rape 2470
                                                                                                                                                                                                  Tachinidae in 4991
     insecticides for 565, 3085
timing of 565
descriptions of 565
in USA 565, 1082, 3085, 6211
male genitalia in 1191
                                                                                                    C. pleurostigma in, on rape 2469
Cimbex connatus in, on Alnus 4650
                                                                                                                                                                                                  Tetranychidae in, on apple 6464
                                                                                                                                                                                                  Tetranychus urticae in
                                                                                                                                                                                                  on Phaseolus vulgaris
on raspberry 6451
on rose 3566
Tomicus piniperda in, on Pinus 2074
Tortricidae in, on apple 3476, 3477,
                                                                                                    Coleophora spp. in, natural enemies of 2952
                                                                                                    Conopia myopaeformis in, on apple 3479, 6466
maie gentalia in 1191
on Fraxinus pennsylvanica
in North Dakota 3085
in USA 565
polymorphism in 6211
Podosphaera leucotricha
Amblyseius aberrans on, development of 3345
                                                                                                    Conopidae in 792
                                                                                                    crop plants in, pests of 3702
Cryphalus piceae in, natural enemies of 3594, 3601
                                                                                                                                                                                                        3478
                                                                                                                                                                                                  Trigonotylus coelestialium in 3305
vegetable crops in, insect pests of 4014
Vespidae in 131
                                                                                                   3594, 3601
Curculionidae in 3776
in crop fields 6536
Cydia molesta in, on peach 394
Cynipoidea in 4858
Dasineura brassicae in
natural enemies of 2996, 2997
on rape 5095
Dasychira mydihunda in
                                                                                                                                                                                             Polia
flight activity in 5378
in Romania 5378
Polia atlantica (see Hadena atlantica)
3345
control of, fungicides for 5603
in, apple, in Romania 5603
Poecilips, on leaf stalks 3459
Poecilips gedeanus
on leaf stalks 3459
on Shorea, in Borneo 3459
Poecilochirus, on Carabidae, in Ontario
                                                                                                                                                                                             Polistes
in Afghanistan 3788
in Nepal 2167
in Spain 3835
                                                                                                    Dasychira pudibunda in, natural enemies of 3342
                                                                                                                                                                                                 nests of, distinguishing Vespula germanica
nests and 4977
preying on, Malacosoma neustria, in
Japan 1296, 5596
                                                                                                    Delia brassicae in, on rape 2469
Dorytomus suratus in, on Populus
 Poecilus (see Pterostichus)
poecilus, Oebalus
                                                                                                    Dysaphis plantaginea in, natural enemies of 3465
 Poekilocerus
     biology of 4425
taxonomy of 4425
                                                                                                    Elachiptera cornuta in, on maize 2893
                                                                                                                                                                                              Polistes canadensis
                                                                                                                                                                                                 in Panama 3846
in USA 91
mating in 91
parasitised by, Pachysomoides stupidus
                                                                                                    Elateridae in 802
in forest soils 3083
taxonomy of 4425
Poekilocerus bufonius hieroglyphicus
descriptions of 4425
distribution of 4425
Poekilocerus pictus
descriptions of 4425
distribution of 4425
distribution of 4425
in India 1324, 4425, 4958
in Pakistan 4425
                                                                                                    Enarmonia formosana in, on apple 3479,
                                                                                                         6466
                                                                                                    Euproctis similis in, natural enemies of 3592
                                                                                                                                                                                             3846
Polistes carolina
in USA 4448
nest sites of 4448
Polistes chinensis antennalis
in Japan 4415, 6485, 6486
polygynous nests of 4415
preying on
Papilio xuthus
in Japan 6485
in Kyushu 6486
Polistes erythrocephalus
in Costa Rica 3866
preyed on by, Eciton burchellii, in Costa
Rica 3866
Polistes exclamans
                                                                                                                                                                                                        3846
                                                                                                    Formicidae in 126, 127, 128, 132
fruit crops in, arthropod pests of 3982
grain crops in, pests of 3373
Hoplocampa testudinea in, on apple
6462, 6463
     lipids in, regulation of metabolism of
           5322
                                                                                                    Hyalopterus pruni in, natural enemies of
      on Calotropis, in Bihar 1324
     on Calotropis gigantea, energetics of
                                                                                                    Hylastes brunneus in 2592, 3103
                                                                                                    Ichneumonidae in, in pine forests 2075 insect pests in 1869

Larix decidua in, insects associated with
            4958
 pogo, Eudiagogus
 Pogonomyrmex californicus
foraging in 4975
in USA 4975
intraspecific competition in 4975
                                                                                                          2593
                                                                                                    Lasius niger in 6290
                                                                                                                                                                                              Polistes exclamans
in USA 4448
nest sites of 4448
                                                                                                    leaf hoppers in, on sunflower 3036
 Pogonomyrmex desertorum
in USA 4974
                                                                                                    leguminous crops in, insect pests of
                                                                                                    Leucoma salicis in, natural enemies of
in USA 4974
predation of, responses to 4974
preyed on by, Phrynosoma cornutum, in
New Mexico 4974

Pogonomyrmex occidentalis
in USA 794, 6295
sampling of 6295
                                                                                                                                                                                              Polistes fuscatus
in USA 4633, 6211
polymorphism in 6211
tending, Kermes kingii, in Michigan
4633
                                                                                                    lucerne in, pest control on 5048

Lymantria dispar in, natural enemies of
                                                                                                          3592
                                                                                                   Macrosiphoniella spp. in, on Artemisia
3875, 3876
Meligethes aeneus in 1867
on rape 3516
                                                                                                                                                                                              Polistes hebraeus (see P. olivaceus)
Polistes jadwigae
in Japan 6485, 6486
 Pogonomyrmex rugosus
in USA 4974
```

Daojeet macx		1089
Polistes jadwigae contd.	Polygonum, Diogmites missouriensis	Pome fruits, pest control on, biological
preying on Papilio xuthus	associated with, in Arkansas 2336	5930
in Japan 6485	Polygonum filiforme, Gastrophysa atrocyanea on, feeding by 849	Pomegranate (Punica granatum) Brevipalpus phoenicis on, in Madhya
in Kyushu 6486	Polygonum persicaria, Gastrophysa	Pradesh 4295
Polistes Ianio Ianio in Peru 4452	atrocyanea on, feeding by 849	Leptoglossus australis on, feeding by
parasitised by, Xenos peruensis, in Peru	Polygonum tinctorium, Gastrophysa atrocyanea on, not feeding 849	2242 Nipaecoccus filamentosus on, in Rajastha
4452	Polygraphus rufipennis	4009
Polistes metricus	in USA (Alaska) 5738	Tenuipalpus punicae on, in Madhya
in USA 784, 4448 nest sites of 4448	on Picea glauca, in Alaska 5738 Polymerus, on Solidago, in New York	Pradesh 4295 Virachola isocrates on, in Maharashtra
queen behaviour in 784	2855	5643
Polistes olivaceus	Polymerus cuneatus (see P. testaceipes) Polymerus testaceipes	pometaria, Alsophila pomi, Aphis
glycogen in, reserves of 4266 in New Zealand 4302	in USA 4558	pomi, Eotetranychus (see E. pruni)
Polistinae	on avocado, in Florida 4558	pomi, Typhlodromus
in Nepal 2167	Polymerus venaticus in USA 2855	pomonella, Carpocapsa (see Cydia pomonella)
social behaviour in, review 5441	on Solidago, in New York 2855	pomonella, Cydia (Carpocapsa; Laspeyresia)
Polistomimetes, taxonomy of 701 politum, Trypoxylon	polymnia, Mechanitis	pomonella, Laspeyresia (see Cydia
Pollen	Polynesia, cassava in, arthropod pests of 4592	pomonella) pomonella, Rhagoletis
in Acanthoscelides obtectus adult diet,	Polyols (see Alcohols, polyhydric)	pomorum, Anthonomus
effects on life-span and fecundity of 1243	Polyoxin D	Pompiliidae, preyed on by, Diogmites
parathion-methyl in, toxicity to Apis	in Oncopeltus fasciatus, inhibition of chitin synthesis by 1164	Pondelure (see Bicyclo[3.1.1]hept-2-ene,
mellifera of 3718	in Pieris brassicae, inhibition of chitin	$2,6,6$ -trimethyl-, with $(1\alpha,2\alpha,5\alpha)$ - $4,6,6$ -
Pollination of brussels sprouts	synthesis by 2152 Poly(oxy-1,2-ethanediyl), α-hydro-ω-	trimethylbicyclo[3.1.1]hept-3-en-2-ol) ponderosae, Coleotechnites
by Apis mellifera 4578	hydroxy-, pesticides formulated in	ponderosae, Coleotechintes ponderosae, Dendroctonus
by Calliphoridae 4578	microcapsules of 3215	Ponds, Micronecta scutellaris in, in India
of cacao by Ceratopogonidae 4080	Polyphagotarsonemus latus biology of 1008, 3018	1358 Ponds, fish, Daphnia ambigua in, in Kansas
by Forcipomyia 498	control of	5007
of Galinsoga, by insects 4487	acaricides for 1008, 1051, 1544, 3018,	Pongamia glabra cake, as fertilizer for Litch
of lucerne by insects 695	6571 non-target effects of 1008	chinensis, effects on Argyroploce leucaspis of 6497
by Megachile rotundata 1952, 2924	in Brazil 1544	Pontederia cordata, Acigona infusella on, in
of oil palm, by insects 1437, 6692	in Colombia 1008	Argentina 5507
of Ophrys, by Eucera 4437 of Pinus, by Trigona 5171	in India 1051, 3559, 6571 in Japan 3018	Pontederia rotundifolia, Acigona infusella on, in Argentina 5507
of safflower 6556	in UK 5117	Pontia daplidice, phenotypic-induction
of Sambucus, by insects 4545 Pollinators	on Capsicum, damage caused by 5117 on cotton, in Brazil 1544	mechanisms in 2676 Popillia complanata
in rangeland, importance of 3977	on jute	in India 281
in tropical forests, book 1585	in India 3559	on cinnamon, in India 281
of Ficus, coevolution of 4001 on cauliflower, sampling of 2280	in West Bengal 1051, 6571 resistance to 1051	Popillia japonica Bacillus popilliae in
pollini, Pollinia	on Phaseolus vulgaris, damage caused by	depletion of reserves caused by 3685
Pollinia pollini	1008	in Connecticut 6204
biology of 6494 control of, insecticides for 6494	on potato, in Kyushu 3018 outbreaks of, weather conditions favouring	in Ohio 6204 bendiocarb resistance in, in New Jersey
in Greece 6494	3559	4157
on olive, in Crete 6494 Pollution, by pesticides 1682	polyphemus, Antheraea (see Telea	chlordane resistance in, in Ohio 6205 chlorpyrifos resistance in, in New Jersey
polonica, Medetera	polyphemus, Telea (Antheraea)	4157
Polyamia weedi	Polyphylla alba	control of
in USA 1945 on Festuca arundinacea, in Missouri	biology of 2791 control of 2791	antifeedants for 6203 behaviour-modifying chemicals for
1945	in USSR 2791	1739
Polybia occidentalis	Polyphylla olivieri	biological 3684
in Mexico 3855 preyed on by, Efferia argyrogaster, in	biology of 2791 control of 2791	insecticides for 4883, 6205 dieldrin resistance in, in New Jersey
Mexico 3855	in USSR 2791	4157, 4883
polychaeta, Chaetogeoica Polychrosis viteana	Polyporus compactus, in, Quercus spp., associated with wood-boring insects	EPPO data sheet on 3189 in USA 2263, 4157, 4883, 6203, 6204,
control of, insecticides for 4908	1105	6205
in USA 4908	Polyprenols (see Isoprenoids, polyprenols)	insecticides in, effects of 4883
on grapevine, in Pennsylvania 4908 polychrysa, Chilotraea (see Chilo	Polypropylene (see 1-Propene, homopolymer)	on <i>Poa pratensis</i> , damage caused by 1425
polychrysus)	Polysaccharides, in Teleogryllus mitratus,	on soyabean, in Ohio 6203
polychrysus, Chilo (Chilotraea)	during ovarian and embryonic	oviposition in, models of 2263 sex pheromone of, responses to 665
polyctena, Formica Polydesmus	development 2718 Polyspilota aeruginosa	sex pheromone of, responses to 665 Poplar (see Populus)
control of, pesticides for 6533	in Nigeria 6514	Poplar, balsam (see Populus balsamifera)
on sugar-beet, in Belgium 6533	preying on, Maruca testulalis, in Nigeria 6514	Poplar, Lombardy (see Populus italica) Poplar, Simon (see Populus simonii)
Polydorus aristolochiae (see Pachliopta aristolochiae)	Polystyrene (see Benzene, ethenyl-,	Poplar, white (see Populus alba)
Polydrusus, on Betula, in Finland 5150	homopolymer)	Poppy, corn (see Papaver rhoeas)
Polyergus, Dufour's gland in, secretion of 3744	polytes, Papilio Polythene (see Ethene, homopolymer)	popularis, Apanteles Population dynamics
Polyesters, stored-product insects in,	polyturator, Pelecinus	book 2262
damage caused by, specific identity of	Polytus mellerborgii, biology of 2780	determining key factors from life-table
4678 Polyethylene (see Ethene, homopolymer)	Polyurethanes (see Urethane polymers) Poly(vinyl alcohol) (see Ethenol,	data 109 ecological successions 112
Polyethylene glycol (see Poly(oxy-1,2-	homopolymer)	field estimates of insect colonization 113
ethanediyl), α-hydro-ω-hydroxy-)	Poly(vinyl chloride) (see Ethene, chloro-,	key factor analysis 4290 models of, including variability and
Polygala paniculata, Tetranychus piercei on, in Indonesia 705	homopolymer) polyxenes, Papilio	natural selection 4800
Polygonaceae, Bemisia tabaci on, in Brazil	Pomachiliini, in USSR 11	trophic connectance and stability of mode
2015	Pomaderris aspersa 2587	ecosystems 562 populella, Anacampsis
polygonata, Chloropulvinaria	pomaria, Typhlocyba	роригена, лиасатрыя

```
populi, Cryphalus (Trypophloeus)
                                                                                                                  Populus simonii, Leucoma salicis on,
 populi, Pemphigus
                                                                                                                          development of 1069
populi, Trypophloeus (see Cryphalus populi)
populicaulis, Pemphigus
                                                                                                                  Populus tremula, Dorytomus suratus on, in
                                                                                                                          Austria 3603
 populifoliella, Lithocolletis (see
                                                                                                                  Populus tremuloides
populifoliella, Lithocolletis (see
Phyllonorycter populifoliella)
populifoliella, Phyllonorycter (Lithocolletis)
populirensversus, Pemphigus
populivenae, Pemphigus
populnea, Saperda
Populus
Aclerie tripunataea on in Wart
                                                                                                                       Ceratocapsus piceatus on 2573
                                                                                                                       Choristoneura conflictana on, in Alberta
                                                                                                                      Cicada spp. on, damage caused by 3084
Cryphalus populi on, in Utah 2589
Hypoxylon mammatum in, associated
with insect damage 3084
insect pests of, estimating defoliation by
3086
      Acleris tripunctana on, in West Germany
1575
     Anacampsis populella on, in West
Germany 1575
arthropod pests of, in Netherlands
Byctiscus betulae on, in France 29
Callirhopalus bifasciatus on 5135
                                                                                                                       Malacosoma disstria on, in Ontario 1094
Saperda inornata on, damage caused by
                                                                                                                  Populus tremuloides sawdust, diet
      Camaratoscena subrubescens on, in
                                                                                                                          component for, Cryphalus populi 2589
              Turkey 1310
                                                                                                                   Porcellio scaber
      Cryptorhynchus lapathi on, in Quebec 511
                                                                                                                       Chilo iridescent virus in, replication of
                                                                                                                      3151
in UK 3429, 3430
in dune grassland
in England 3429
      Elasmostethus interstinctus on, in Turkey
              4095
       Eriophyidae on, in New York 2762
                                                                                                                 role as decomposer of 3430 population dynamics of 3429 porcellus, Dinoderus
Poria cocos, in, Quercus spp., associated with wood-boring insects 1105
Poria medullaris, in, Eucalyptus spp., in Tasmania 1091
     Eriophylae on, in New 10rk 2/62
Gonimbrasia tyrrhea on, in southern
Africa 5169
insect pests of, in Ukraine 5183
Lepidosaphes ulmi on 955, 956
Leucoma salicis on, in Switzerland 6629
Lymantria dispar on
development of 1587
in Portugal 4652
Nymphalia antions on in Wisconsin
                                                                                                                  Poria placenta
      Nymphalis antiopa on, in Wisconsin
              4651
                                                                                                                            Eucalyptus regnans wood, effects on
Nasutitermes exitiosus of 2842
      Operophtera brumata on, in Italy
Pemphigidae on, in China 2588
                                                                                                                            Eucalyptus wood, effects on termite
resistance of 262
wood, effects on Coptotermes lacteus of
5490
      Phyllonorycter populifoliella on, in
Yugoslavia 2078
      Sthenarus rotermundi on
in Canada 2069
in Pennsylvania 2069
                                                                                                                  Porizontinae, parasitising, Tenthredinidae, in
Europe 5773
Porphyrophora hamelii
in USSR 2847
      Sthenopis quadriguttatus on, damage caused by 511
Tenthredinidae on, in Europe 5746
                                                                                                                       on Aeluropus littoralis, in Armenia 2847
on Phragmites australis, in Armenia 2847
Tenthredinidae on, in Europe 5746

Populus alba, Leucoma salicis on, development of 1069

Populus angustifolia, Pemphigus betae on, habitat selection by 4093

Populus balsamifera, Leucoma salicis on, development of 1069

Populus × canadensis aggr.

Chrysomela scripta on damage caused by 550, 6148 development of 6206

Populus × canadensis aggr. (wood), Odontotermes obesus in, development of
                                                                                                                  ovarian development in 2848
rearing of, techniques for 2847
portentosa, Gromphadorhina
portentosus, Brachytrupes
Portevinia maculata
biology of 4594
in Norway 4594
                                                                                                                       on Allium ursinum, in Norway 4594
                                                                                                                  taxonomy of, characters distinguishing
Cheilosia fasciata and 4594
Porthesia similis (see Euproctis similis)
         Odontotermes obesus in, development of
         6660
 Populus deltoides
                                                                                                                  Porthesia xanthorrhoea (see Euproctis
      Leucoma salicis on
                                                                                                                          xanthorrhoea)
                                                                                                                  Porthetria dispar (see Lymantria dispar)
porthetriae, Apanteles
portschinskyi, Paracletus (see P.
           development of 1069 in Maine 1069
      Pemphigus populicaulis on, galls of 3101
P. populitransversus on, galls of 3101
Pseudobunaea irius on, in southern Africa
5169
                                                                                                                          cimiciformis)
                                                                                                                  Portugal
Aphidoidea in 3783
Hippodamini in 791
Populus × euramericana (see P. × canadensis aggr.)
Populus fremontii, Pemphigus populivenae on, habitat selection by 4093
Populus grandidentata
Leucoma salicis on
                                                                                                                       Lymantria dispar in, natural enemies of
                                                                                                                              4652
                                                                                                                 postica, Hypera
postica, Orgyia
posticata, Mahanarva
postvitana, Epiphyas
Pot plants, Coccus hesperidum on, in USSR
2977
Leucoma salicis on
development of 1069
in Maine 1069, 1093

Populus italica, Leucoma salicis on,
development of 1069

Populus maximowiczii, Pachypappa
marsupialis on, galls of 4641
                                                                                                                       in Noctua pronuba, use in chemoprinting of 2223
  Populus nigra
      Chaitophorus leucomelas on, development of 547
                                                                                                                       in Pinus sylvestris, utilisation by
                                                                                                                       Neodiprion sertifer of 5756 ion (K<sup>1+</sup>) in Delia antiqua, and in diet 2226
     of 54/
Dorytomus suratus on
in East Germany 3603
in Poland 3603
Euproctis chrysorrhoea on, susceptibility
to Bacillus thuringiensis of 4653
Lymantria dispar on
in Portugal 4652
susceptibility to Bacillus thuringiensis of
4653
                                                                                                                           in Delia antiqua, and in diet 2226 in Hyalophora cecropia transport across mid-gut of 6054 uptake from mid-gut of 1785 in Locusta migratoria Malpighian tubules, secreting of 2209 in Manduca sexta, effects of Bacillus thuringiensis endotoxin on transport across mid-gut of 3250 in Phaseolus, effects on Aphis craccivora of 4340
      Pemphigus bursarius on, in West
Germany 2746
```

Populus nigra italica (see P. italica)

```
Potassium contd.
ion (K<sup>1+</sup>) contd.
in Vigna unguiculata, effects on Aphis
craccivora of 4340

Potassium chloride, Yponomeuta feeding responses to 4775
 Potassium iodide, in Bombyx mori diet,
promoting growth, silk production and fecundity 263

Potato (Solanum tuberosum)
    otato (Solanum tuberosum)
Agriotes spp. on
in France 3811
in Italy 1022
Agrotinae on, in Poland 1864
Agrotis segetum on, in Denmark 653
Amrasca biguttula on, in Maharashtra
     aphid control on, reflective mulches for
             1530
      Aphididae on, virus transmission by
             4184
      Aphidoidea on, in Jammu and Kashmir
             5691
     Aphis fabae on, in Austria 1755
arthropod pests of
in Kenya 4181
in West Germany 2162
resistance to 2027
Aspidiotus nerii on, development of 4204
A. paranerii on, development of 4204
Aulacorthum solani on
distribution pattern of 2026
          distribution pattern of 2026
in France 5693
in Scotland 2104
      Caliothrips indicus on, in Maharashtra
             2494
      carbofuran in, effects on composition of
      Ctenicera pruinina on, in Washington 3536
    disulfoton in, effects of 2029

Empoasca fabae on
in Minnesota 3533, 6232
resistance to 1528, 2493, 5689
ethiofencarb in, effects of 2029
fensulfothion in, effects of 2029
Ferrisia virgata on, development of 5357
Gortyna flavago on 993

Henosepilachna vigintioctopunctata on
in Karnataka 3017
in West Bengal 6538

Heteronychus arator on, damage caused
by 6541
Icerya purchasi on, development of 3815
insect pests of
damage caused by 6231
      disulfoton in, effects of 2029
           damage caused by 6231
           in Assam 4142
           resistance to 1134
      insecticides in
           persistence of 5692
      toxicity of 6700
kelevan in, residues of 1863
      Leptinotarsa decemlineata on
development of 1527
fecundity of 6535
          fecundity of 6535
forecasting infestations of 5963
in Austria 1756
in Byelorussia 1526
in Caucasus 5112
     in Caucasus 5112
in France 3024
in Romania 5692, 5700
in RSFSR 3021
in USSR 626, 3022, 3532, 6539
olfactory responses of 4043
Limonius canus on, in Washington lindane in, residues of 6723
Macrosiphum euphorbiae on distribution pattern of 2026
in France 5693
in Scotland 2104
           in Scotland 2104
      Myzus persicae on
           damage caused by 4936
distribution pattern of 2026
forecasting infestations of 2024, 3538,
                  4944
           in Brazil 3016
          in Bulgaria 1462
in England 219
           in France
                                     5693
           in Idaho
           in Israel
                                   1020
          in Japan 4733
in Maharashtra
```

2494

otato contd.	Potato virus T 4690	Prove alone contd
Myzus persicae on contd.	Potato virus Y	Prays oleae contd.
in Mauritius 5513	control of, vector control for 1530, 3560,	parasites of, effects of insecticides on 3814
in Minnesota 3535, 6232	5690	
in New South Wales 1700	in	parasitised by, <i>Trichogramma</i> spp., in France 1657
in Pennsylvania 3537, 4916	Myzus persicae, transmission of 5688,	
in Romania 5700	5690	predators of, effects of insecticides on 984
in Scotland 2104	potato	reproductive isolation between P. citri and
in UK 5690	detecting of 5688	3509
in USA 4943	in Japan 1530	sex pheromone of 1474
in Wisconsin 6233	in UK 5690	identity of 3507, 3509
Ostrinia nubilalis on	tobacco, in North Carolina 3560	taxonomy of, characters distinguishing P.
damage caused by 6537	Potato virus Y necrotic str., in, Myzus	citri and 1779
in Virginia 4906	persicae, infectivity of 1019	Precocene I (see 2H-1-Benzopyran, 7-
pest control on	Potentilla canadensis, Bryobia cristata on, in	methoxy-2,2-dimethyl-)
biological 6001	UK 1451	Precocene II (see 2H-1-Benzopyran, 6,7-
book 2621	Potentilla norvegica, insects associated with,	dimethoxy-2,2-dimethyl-)
in Byelorussia 1526	in USA 5503	Predator-prey interactions
in RSFSR 3184	Potentilla recta, insects associated with, in	book 2747
insecticides for 1695, 2462, 3019,	USA 5503	frequency-dependent selection of prey
5255, 6712 thresholds for 3533 3535 5604 5063	potentillae, Amblyseius	2817
thresholds for 3533, 3535, 5694, 5963, 6232	poulaineae, Forcipomyia	models 1981, 4458
pests of	Poultry, preying on, Surattha indentella, in Kansas 1943	searching behaviour as affected by prey density 259
in Moldavia 3513	Poultry feed, insects as 1358	stochastic predation model with prey
in Poland 3539	Poultry houses	depletion 108
Phenacoccus solani on, in Oklahoma	Dermestes lardarius in, in UK 1614	Predators, genetic improvement of 4806
2599	D. maculatus in, in UK 1614	Premerge (see Dinoseb)
Phthorimaea operculella on	pest control in 5230	Prenolepis imparis
assessing infestations of 1605	Pounce (see Permethrin)	in USA 1331
effects of irrigation on 3534	Poxviridae, in, Choristoneura fumiferana, in	Laboulbenia formicarum in, in North
in California 1021	Ontario 6633	Carolina 1331
in New Zealand 4045	PP-505 (see Tazimcarb)	prima, Parania
oviposition by 2025	PP-557 (see Permethrin)	Prince Edward Island
Planococcus citri on, development of	PPC-3 (see Isoprocarb)	Senecio jacobaea in
3815	prabhakeri, Trichogrammatoidea	Longitarsus jacobaeae for biological
Polyphagotarsonemus latus on, in Kyushu 3018	praetiosa, Bryobia	control of 2792
potato leaf roll virus in	Prangos asperula insecticidal activity of oil from 6173	Tyria jacobaeae for biological control of 2792
detecting of 5113	repellent activity of oil from 6173	Priobium sericeum
in Idaho 5694	Praon	in Canada 596
in Israel 1020	parasitising, Euceraphis gillettei, in British	in structural wood, in Manitoba 596
in Scotland 2104	Columbia 551	Prionomitus mitratus
in UK 5690	venom apparatus in 2672	in France 5607
in Wisconsin 6233	Praon barbatum, in Mongolia 3348	in Italy 6457
potato virus Y in	Praon dorsale	parasitising
detecting of 5688	in Japan 1426	Psylla pyri
in UK 5690	parasitising, Acyrthosiphon kondoi, in	in France 5607
Spodoptera exigua on	Japan 1426	in Italy 6457
in Maharashtra 3020	Praon flavinode 551	Prionoplus reticularis, control of,
in Virginia 4906	Praon pakistanum	insecticides for 5778, 6662
Tetranychus urticae on, development of 5102	sp. nov., description of 1917 in Pakistan 1917	Prionoxystus robiniae
viruses in, insect vectors of 2492		attractants for 1569, 6202 control of, insecticides for 3085
otato fields	parasitising, <i>Schizaphis graminum</i> , in Pakistan 1917	in USA 1105, 1569, 3085, 6202
Curculionidae in, in Poland 6536	Praon volucre	on Fraxinus pennsylvanica
predatory arthropods in, in Pennsylvania	in Greece 6302	in North Dakota 3085
4916	parasitising, Myzus persicae, in Greece	in South Dakota 3085
predatory insects in	6302	on Quercus, fungal decay associated with
diel activity of 3537	prapawan, Sukunahikona	1105
effects of insecticides on 2462	prasina, Chrysopa (see C. ventralis)	traps for 1569, 6202
effects of pirimicarb on 3538	Prasoidea sericea	Prionus insularis, compound eyes in 1777
Syrphidae in, in Poland 1892	on Eucalyptus, in southern Africa 5169	Pristiphora abietina
otato leaf roll virus	on Pinus, in southern Africa 5169	in USSR 5390
aphid transmission of 5437	pratensis, Blepharipa	parasitised by, <i>Pleolophus brachypterus</i> , i Lithuania 5390
control of, vector control for 1020, 5690, 5694, 6233	pratensis, Formica pratensis, Oligonychus	Pristiphora erichsonii
in	Prays citri	control of, biological 1586
Aulacorthum solani, transmission of	attractants for 1779	in Canada 5214
2104	control of, insecticides for 5637	in USA 1586, 5214
Macrosiphum euphorbiae	in France 1779	larval development in, head capsule
detecting of 3023	in Italy 5637	widths during 5214
transmission of 2104	on lemon, damage caused by 5637	on Larix, in New Brunswick 5214
Myzus persicae	reproductive isolation between P. oleae	on Larix laricina, in Minnesota 1586
detecting of 3023, 5113	and 3509	parasites of, defence mechanisms against
not replicating 2028	taxonomy of, characters distinguishing P.	1586
transmission of 1020, 2104, 5690,	oleae and 1779	parasitised by, <i>Bessa harveyi</i> , in Minnesota 1586
5694, 6233	Prays oleae attractants for 1779, 3507	Pristomerus hawaiiensis
potato detecting of 5113	control of 1474	in USA (Hawaii) 2549
in Idaho 5694	biological 2457, 6490	overwintering in 2549
in Israel 1020	insecticides for 984	parasitising, Pectinophora gossypiella, and
in Scotland 2104	traps for 984	biological control using, in California
in UK 5690	development in, effects of temperature on	2549
in Wisconsin 6233	405	Pristomerus vulnerator, parasitising, Cydia
otato severe mosaic virus (see Potato virus	in France 1657, 1779, 2457	pomonella, in British Isles 4211
Y) .	in Greece 3507, 6490	Privet, California (see Ligustrum
otato (stored tubers)	in Spain 405, 984	ovalifolium)
Aphidoidea in, in Kenya 4181	on olive	Probergrothius sexpunctatus
pest control in, fumigation for 6696	forecasting infestations of 405	in Ghana 2730 survival during food shortage of 2730
Phthorimaea operculella in, assessing infestations of 1605	in France 2457 in Greece 6490	Probit analysis, for analysing results of
intestations of 1003	in Chair 004	incesticide bioessays 2275

1092 Prolasius brunneus Propanedioic acid, 1,3-dithiolan-2-ylidene-, probus, Prococcophagus in Australia 2587 bis(1-methylethyl) ester, in Nilaparvata processionea, Thaumetopoea in Eucalyptus forests, in Victoria 2587 lugens, effects on reproduction of 1705 proclia, Aphytis proclinata, Argyrophylax
Proclonol (see Benzenemethanol, 4-chloro-2587 1,2-Propanediol seed harvesting by Prolasius flavicornis against, Aspergillus niger, in insect rearing a-(4-chlorophenyl)-a-cyclopropyl-) in Australia 2587 media 3324 in Eucalyptus forests, in Victoria 2587 seed harvesting by 2587 in Heliothis virescens, toxicity of 3324 Prococcophagus neserorum sp. nov., description of 4450 in South Africa 4450 parasitising, Pulvinariella mesembryanthemi, in South Africa seed harvesting by Propanesulfinothioic acid, S-propyl ester, Acrolepiopsis assectella oviposition responses to 2499 Prolasius pallidus in Australia 2587 Propanethial, S-oxide, attractant for, Delia antiqua 687 in Eucalyptus forests, in Victoria 2587 seed harvesting by 2587 Prococcophagus probus sp. nov., description of in South Africa 4450 1,2,3-Propanetricarboxylic acid, 2-hydroxyproletella, Aleyrodes in cotton, role in susceptibility to

Amrasca biguttula of 6568
in Samia cynthia larvae, role in moulting
metabolism of 3254

1,2,3-Propanetriol (glycerol)
in Antheraea mylitta pupal fat-body 4450 Prolidase (see Dipeptidase, proline) Prolinase (see Dipeptidase, prolyl) parasitising, Saissetia oleae, in South Africa 4450 L-Proline in *Drosophila*, effects of hydroxyproline on 731 Prococcophagus saissetiae sp. nov., description of in Heliocopris dillonii muscles, as direct in South Africa 4450 4470 energy source 1795 in Bombyx mori eggs, origin of 4264 in Chilo suppressalis hemolymph 4771 parasitising, Saissetia spp., in South Africa in Hypena iconicalis 2225 4450 Prococcophagus varius
descriptions of 4450
in South Africa 4450
parasitising, Saissetia oleae, in South
Africa 4450 in Chilo suppressalis larvae, effects of anaerobiosis on production of 6050 in Leptinotarsa decemlineata, decreasing during flight 730 in Leptinotarsa decemlineata flight in Exeristes roborator, effects of dietary glucose on 3255 in formulations of Beauveria brongniartii muscles, utilisation during flight of 3743 in Spodoptera littoralis, effects of insecticides on 4362 in Spodoptera littoralis hemolymph, Proctolin 4135 4135
in Galleria mellonella hemolymph, effects of temperature on 1803
in Galleria mellonella pupal hemolymph effects of cooling on 3266 effects of low temperatures on 6065 in Locusta migratoria flight muscles, during flight 4228 in insects, role in muscle pharmacology of 4774 in Locusta migratoria, effects on brain adenylate cyclase of 2212 Proctotrupoidea, book 6265 effects of nuclear polyhedrosis virus on 6686 Nilaparvata lugens feeding responses to 3413 Procyon lotor Lymantria dispar nuclear polyhedrosis virus in, passage through gut of 1568 L-Proline, 4-hydroxyin Drosophila, periods of sensitivity to in Teleogryllus mitratus, during ovarian and embryonic development 2718 731 preving on Blepharipa pratensis, in Pennsylvania Nilaparvata lugens feeding responses to Propanoic acid 3413 2566 diet component for prolixus, Rhodnius Promecotheca cumingii control of 936 Parasetigena silvestris, in Pennsylvania Mamestra brassicae 6143 Mythimna separata 6143 in Zootermopsis angusticollis, 2566 Prodenia (see Spodoptera)
Prodenia latifascia (see Spodoptera in Indonesia 936 incorporation into cuticular hydrocarbons of 766 latifascia) on coconut, in Indonesia 936 hydrocarbons of 766
phenyl ester, inhibiting oviposition by
Amyelois transitella 374
sodium salt, in Ascosphaera apis, not
inhibiting growth 3683
Propanoic acid, 3-(acetylamino)-2-aminoantifeedant for, Anacridium
melanorhodon 6271
in Acadia, 6271 Prodenia litura (see Spodoptera litura) Prodenia sunia (see Spodoptera sunia) Promecotheca soror control of 936 Prodenia sunia (see Spodoptera sunia)
proditor, Telenomus
Prodlure (see 9,11-Tetradecadien-1-ol,
acetate, (9Z,11E)-)
Proces, in Areca catechu nuts, in
Karnataka 3677
Procese depressus 3677
Profenofos (O-(4-bromo-2-chlorophenyl) Oethyl S-propyl phosphorothioate)
acaricidal activity of 652 in Indonesia 936 on coconut, in Indonesia 936 on coconut, in Indonesia 936

promissa, Catocala

Pronematus
in Rajasthan 1361
preyed on by, Rubroscirus africanus 5

Pronematus ubiquitus
in Egypt 4596
preying on Aculore have in Acacia 6271 Propanoic acid, 2,3-diamino-antifeedant for, Anacridium melanorhodon 6271 preying on, Aculops lycopersici, in Egypt 4596 against in Acacia 6271 pronuba, Noctua (Triphaena) pronuba, Triphaena (see Noctua pronuba) pronubana, Cacoecimorpha Propanal, 2-methyl-2-(methylsulfonyl)-, O-Propanoic acid, 2-hydroxy- (lactic acid) Earias insulana, on cotton 227 Euproctis melania 3798 Myzus persicae, on potato 3016 Nezara viridula 1698 attractant for, Drosophila spp. 2253 in Bombyx mori eggs 729 in Chilo suppressalis larvae, effects of anaerobiosis on 6050 [(methylamino)carbonyl]oxime (see Pectinophora gossypiella, on cotton Aldoxycarb)
Propanal, 2-methyl-2-(methylthio)-, O[(methylamino)carbonyl]oxime (see
Aldicarb) 227 Propanoic acid, 2-methylin Papilio protenor larval osmeterial
secretion 4234
ethyl ester, in Papilio protenor larval
osmeterial secretion 4234
methyl ester, in Papilio protenor larval
osmeterial secretion 4234
Propanoic acid, 2-oxo- (pyruvic acid) Piezodorus guildinii 1698 Spodoptera exigua on cotton 3552 on lucerne 2297
S. frugiperda 5265
S. littoralis 4389
on cotton 4386, 4390
Therioaphis trifolii, on lucerne 2296
in Apanteles marginiventris, toxicity of 3547 Propanamide, N-(2-methylbutyl)-in Dacus neohumeralis rectal pheromone glands 3983 in Dacus tryoni rectal pheromone glands 3983 Propanamide, N-(3-methylbutyl)-in Dacus neohumeralis rectal pheromone glands 3983 in Chilo suppressalis larvae, effects of anaerobiosis on 6050 in cotton, effects on fibre quality of 227 in Geocoris punctipes, toxicity of 3547 in Hippodamia convergens, toxicity of 3547 in Locusta migratoria flight muscles, during flight 4228 1-Propanol, in Drosophila melanogaster diet, utilisation of 6048 in Dacus tryoni rectal pheromone glands 3983 Propanamide, 2-methyl-N-(2-methylbutyl)in Dacus neohumeralis rectal pheromone in Podisus maculiventris, toxicity of glands 3983 in Spodoptera littoralis, mode of action of 2137 in Dacus tryoni rectal pheromone glands

2-Propanol
in Drosophila funebris, toxicity of 6047

in Drosophila melanogaster, toxicity of 6047

1-Propanone, 1-[2-(\beta-D-glucopyranosyloxy)-4,6-dihydroxyphenyl]-3-(4-hydroxyphenyl)-, Yponomeuta feeding responses to 4775

2-Propanone
in Anthonomus grandis, effects on flight
activity of 3551

in Manduca sexta, terminating pupal diapause 4258

in Sarcophaga crassipalpis, terminating pupal diapause 4258 in Schistocerca gregaria, effects of 3330

Proformica longiseta in Spain 3836 vertical distribution of 3836

insecticidal activity of 652

with antifeedants, not compatible 4386

with cyhexatin, against, Spodoptera littoralis, on cotton 4390

photolysis of 1713

with fentin acetate, and maneb, against, Spodoptera littoralis, on cotton 4390 with fentin hydroxide, against, Spodoptera littoralis, on cotton 4390 with pyrethroids, interactions of 4389

in Heliothis virescens 1152 in Manduca sexta 1152 in Musca domestica 1152 in Tetranychus pacificus, conjugation of cycloprate metabolite and 1152

Propanamide, 2-methyl-N-(3-methylbutyl)-

in Dacus neohumeralis rectal pheromone

in Dacus tryoni rectal pheromone glands 3983

1-Propanaminium, 3-carboxy-2-hydroxy-N,N,N-trimethyl-hydroxide, inner salt

3983

glands 3983

ubject Index
Propanone contd.
with 2,6,6-trimethylbicyclo[3.1.1]hept-2-
ene, and $(1\alpha,2\alpha,5\alpha)$ -4,6,6- trimethylbicyclo[3.1.1]hept-3-en-2-ol,
attractant for, Dendroctonus
ponderosae 6590
Propanone, 1,3-dihydroxy-, phosphate, in Locusta migratoria flight muscles, during
flight 4228
H-4a,10-Propanophenanthrene,
1,3,4,9,10,10a-hexahydro-, attractant for, Oryctes rhinoceros 685
ropaphos (see Phosphoric acid, 4-
(methylthio)phenyl dipropyl ester)
ropargil (see Propargite) ropargite (2-[4-(1,1-dimethylethyl)phenoxy-
]cyclohexyl 2-propynyl sulfite)
against Eotetranychus pruni, on grapevine 370
Tetranychidae, on apple 6464
Tetranychus urticae 1041
in glasshouses, effects on biological control of 5481
resistance to, in, Tetranychus urticae
1040
synergists for, piperonyl butoxide as 1041
with chlorfenson, against, Tetranychus
urticae, on Citrus 4569 Propenenitrile, against, Caryedon serratus
5834
Propene homopolymer, stored-product insects in,
damage caused by, specific identity of
4678 polymer with ethene, Isoptera in, damage
caused by 3147
Propene, 3-isothiocyanato-
attractant for, <i>Phyllotreta</i> spp. 5094 dispensers for 5094
Propenoic acid
ethyl ester Eurygaster integriceps male sex-
pheromone component 2872
E. integriceps responses to 2872 Propenoic acid, 3-[(dimethoxyphosphinoth-
ioul)ovul 2 mothul mothul astor (F)
ioyl)oxy]-2-methyl-, methyl ester, (E)-
(see Methacrifos)
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2-
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]-
(see Methacrifos) ropinos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2-ethanediyl)bis[carbamodithioato]](2-)]- zinc)
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 opinqua, Toya
(see Methacrifos) ropinos (see Ethoprophos) ropinob (homopolymer of [[(1-methyl-1,2-ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropinqua, acid (see Propanoic acid)
(see Methacrifos) ropinos (see Ethoprophos) ropinos (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zine) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate)
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 opinqua, Toya ropionic acid (see Propanoic acid) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 opinqua, Toya ropionic acid (see Propanoic acid) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zine) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 opinqua, Toya ropionic acid (see Propanoic acid) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zine) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctic schrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498
(see Methacrifos) rophos (see Ethoprophos) ropines (homopolymer of [[(1-methyl-1,2-ethanediyl)bis[carbamodithioato]](2-)]- zine) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropotox (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbereella singularis, on cacao 4078
(see Methacrifos) ropinos (see Ethoprophos) ropinos (see Ethoprophos) ropinos (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctic schrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870
(see Methacrifos) ropinos (see Ethoprophos) ropinos (see Ethoprophos) ropinos (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctic schrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 opinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctic schrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica effects of temperature on susceptibility
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica effects of temperature on susceptibility to 3705 metabolite of sulfenyl-propoxur 2139
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica effects of temperature on susceptibility to 3705 metabolite of sulfenyl-propoxur 2139 in rice-fields, non-target effects of 6407
(see Methacrifos) rophos (see Ethoprophos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropinqua, Toya ropinqua, Toya ropinci acid (see Propanoic acid) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica effects of temperature on susceptibility to 3705 metabolite of sulfenyl-propoxur 2139 in rice-fields, non-target effects of in Sitophilus granarius, effects of
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica effects of temperature on susceptibility to 3705 metabolite of sulfenyl-propoxur 2139 in rice-fields, non-target effects of temperature on susceptibility to 3705 resistance to, in
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 opinqua, Toya ropionic acid (see Propanoic acid) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica effects of temperature on susceptibility to 3705 metabolite of sulfenyl-propoxur 2139 in rice-fields, non-target effects of temperature on susceptibility to 3705 resistance to, in Nephotettix cincticeps 2721
(see Methacrifos) rophos (see Ethoprophos) ropineb (homopolymer of [[(1-methyl-1,2- ethanediyl)bis[carbamodithioato]](2-)]- zinc) in tobacco, residues of 5728 ropinqua, Toya ropionic acid (see Propanoic acid) ropotox (see Propoxur) ropoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Anthonomus pomorum, on apple 6465 A. rubi, on strawberry 6448 Distantiella theobroma, on cacao 4078 Euproctis chrysorrhoea, on Rubus 668 Formicidae 826 in food factories 3118 Nilaparvata lugens, on rice 3395, 3970 Opogona sacchari, on banana 6498 Sahlbergella singularis, on cacao 4078 Sogatella furcifera, on rice 6407 Trialeurodes vaporariorum 1870 in Apis mellifera, metabolite of sulfenyl- propoxur 2139 in banana, residues of 184 in Blatta orientalis, effects of temperature on susceptibility to 3705 in Musca domestica effects of temperature on susceptibility to 3705 metabolite of sulfenyl-propoxur 2139 in rice-fields, non-target effects of temperature on susceptibility to 3705 resistance to, in

vaporariorum 1870

Proprioseiopsis solens, in USA

chromosomes in 4271

Propylea japonica

```
1883
     feeding behaviour in, effects of prey
    density on 1883
in Japan 3292, 4271
in Taiwan 3316
     preying on
         Hysteroneura setariae, in Taiwan 3316
Sitobion akebiae 1883
         Trialeurodes vaporariorum, in Kyushu
               3292
Propylea quattuordecimpunctata
in Czechoslovakia 1918, 5201
in USSR 3376
in grain fields, population density of
           1918
     in woodland, in Czechoslovakia 5201
     preying on, grain aphids, in Kazakhstan
3376
 Propylene glycol (see 1,2-Propanediol)
Proreus melanocephalus, in India 6346
 Proreus ramamurthii
     in India 6346
     preying on, Chilo spp., in Tamil Nadu
           6346
 Proreus simulans, in India 6346
Prorhinotermes simplex, insect growth
      regulators in, inducing soldier caste formation 5001
 Prosactogaster iolas (see Platygaster iolas)
Prosactogaster nitida (see Platygaster nitida)
Prosactogaster oebalus (see Platygaster
       oehalus)
 Prosoestus, on oil palm, in Cameroon 1437
 Prosonis
     mandibular glands in, secretion of 3744
 Sibinia spp. on, in Argentina 3076

Prosopis farcta (stored seeds)
     Caryedon serratus in
Caryedon serratus in development of 2729 oviposition by 2729

Prosopis flexuosa, Sibinia spp. on, in Argentina 3076

Prosopis glandulosa (wood), Coptotermes heimi in, development of 6660
 Prosopis juliflora
     Orthotylus vigilax on 27
     Oxyrhachis tarandus on, excretion by
           3748
 Prospaltella
     in Florida 1349
     parasitising
        arastitsing

Aleurocanthus woglumi, and biological
control using, in Mexico 1652

Aleurolobus barodensis, in Uttar
Pradesh 2352

Aonidiella taxus, in Kyushu 1591

Carulaspis spp., in Pennsylvania 2068

Fiorinia theae, in Assam 1057
         Neomaskellia bergii, in Uttar Pradesh
               2352
     taxonomy of, synonym of Encarsia 6024
 Prospaltella aurantii
in Chile 4444
    parasitising, Aonidomytilus espinosai, in
Chile 4444
 Prospaltella lahorensis
     biology of 3491
     descriptions of 3491
in Pakistan 979
     in USA 3490, 3491
     insecticides in, toxicity of 3491
     parasitising
Dialeurodes citri
and biological control using
in Florida 979
in Greece 5632
in Italy 3490, 3491
rearing of, techniques for 979
Prospaltella opulenta, parasitising,
Aleurocanthus woglumi, and biological
control using, in Florida 3488, 4564
Prospaltella perniciosi
hosts of, rearing of 2773
in USA 1346
         Dialeurodes citri
     in USA 1346
in USSR 4980
         Quadraspidiotus perniciosus
and biological control using
                in India 378
in USSR 2955
             in California 1346
```

Propylea japonica contd.

development in, effects of prey density on

```
Prospaltella perniciosi contd.
   parasitising contd.
      Quadraspidiotus perniciosus contd.
         in USSR 4980
Prostaglandins, in Bombyx mori 3276
Prostephanus truncatus, control of, γ-
     irradiation for 3124
 Prostigmata
   in drained bogs, in Irish Republic 3425
   in industrial reclamation sites, in England
   in pastures, in Irish Republic 3425
   on Ulmus carpinifolia, associated with
       Scolytus 4626
Protea, Capys spp. on, in southern Africa
     18
Protective atmospheres
   against
      pests of stored grain 1116
      pests of stored products 3640
       pests of wheat grain 3134, 3646
       Rhyzopertha dominica, in wheat grain
           2096
      Sitophilus oryzae, in wheat grain 2096
   for γ-irradiation of Anthonomus grandis
3551, 3757
    in Ephestia cautella
      effects on eggs of 6706
       effects on triglyceride metabolism of
           2605
   in Ephestia kuehniella, effects on eggs of 6706
6706
in Sitophilus zeamais
effects on development of 3672
effects on life-span of 3673
effects on oviposition of 3672
effects on reproductive rate of 3673
Protein hydrolysate
bait-spray component for
Dacus pleas 1475, 1476, 1477, 2458
   Dacus oleae 1475, 1476, 1477, 2458

D. tryoni 3511
diet component for
      Dacus cucurbitae
                                2282
      Sitotroga cerealella 1226
   in Antheraea mylitta eggs, activity pattern
        of 4473
   in Antheraea mylitta mid-gut, activity
pattern of 4471
in Cheyletus eruditus gut 4231
in Solenopsis invicta labial glands 62
   in Solenopsis invicta mid-gut 6291
in Trichoplusia ni NPV, not found 3154
Proteins
   in Acheta domesticus, metabolism of 3256
   in Amsacta albistriga, effects of nuclear
polyhedrosis virus on 3010
in Antheraea mylitta eggs, developmental
changes in 4473
   in Antheraea mylitta mid-gut,
developmental changes in 4471
    in aphid hemolymph, use in taxonomy of
        1845
   in Artogeia rapae cuticle, synthesis of 1213
   in Autographa californica nuclear
polyhedrosis virus 3690, 6688
in barley grain, effects on oviposition by
Sitophilus oryzae of 6177
in Bombyx mori, effects of viruses on
metabolism of 5432
   in Bombyx mori densonucleosis virus,
        effects of temperature on synthesis of
        3688
   in Bombyx mori diet, requirement for
        2698
   in Bombyx mori mid-gut, developmental changes in 1204, 1206
   in Bombyx mori silk, biosynthesis of
        5432
   in Bombyx mori urine 6068
   in cell lines, Chilo iridescent virus
        inhibiting synthesis of 6683
       Ceratitis capitata hemolymph
   in Chilo iridescent virus 2619
   in Choristoneura fumiferana cell
        membranes, effects of Bacillus thuringiensis on 6685
   in cricket paralysis virus 5844 in cucumber mosaic virus coat, role in
        aphid transmissibility of 5099
```

Proteins contd. Prothiofos contd. Prunus persica var. nectarina (see in Diatraea grandiosella fat-body, relation Nectarine) against of diapause and 6088 Irenimus compressus, on black currant Prunus serotina Archips spp. on, damage caused by 569

Contarinia cerasiserotinae on, damage caused by 569 in Diatraea grandiosella larval fat-body 6720 5347 Spodoptera littoralis 4381 synthesis of 6089 resistance to, in, Spodoptera littoralis Hyphantria cunea on in Drosophila melanogaster larval fat-body, formation of granules of 3253 4382 distribution pattern of 1573 in New York 6030 Protinex, diet component for, Dacus in Dysdercus cingulatus, effects of cucurbitae 2282 in New York 6030
insect pests of
in Pennsylvania 569
in West Virginia 569
Prunus spinosa
Aphididae on, in UK 5611
Bryobia cristata on, in UK 1451
Prunus virginiana, phenology of, correlation
of Agromyza frontella development and
4884 antibiotics on 3190 Protium, Pachygastrinae on, in Papua New in Dysdercus koenigii hemolymph and salivary glands 1804 in eggplant, effects of Urentius sentis on 1537 Guinea 6625 protodice, Pieris Protoschinia scutosa in Japan 4287 in Galleria mellonella hemolymph, effects pest status of 4287 of temperature on 1803
in Galleria mellonella larval hemolymph,
JH binding by 3268
in Galleria mellonella pupal hemolymph,
effects of low temperatures on 6065
in grain crops, effects of aphids on 2876
in Heliothis virescens hemolymph, effects
of Beauveria bassiana on 59 protospirae, Pemphigus Protozoa in Prurigo, in man, caused by Pyemotes zwoelferi 6642 Euproctis similis 1104 insects, diagnostic manual 4139 Pryeria sinica Lymantria dispar 4652 predators of, defence mechanisms against in Holorius virescens hemolymph, effects of Beauveria bassiana on 59 in Holotrichia consanguinea hemolymph, effects of Bacillus on 3161 in Hydrous triangularis neurosecretory system 2211 Reticulitermes flavipes, effects of insect 2749 warning coloration in 2749
Prynachlor (2-chloro-N-(1-methyl-2-propynyl)-N-phenylacetamide) in Apis mellifera, toxicity of 1710
Psacothea hilaris growth regulators on 1714 Steneotarsonemus spinki, in Taiwan 3382 protuberans, Dendrosoter provancheri, Diaphnocoris in insect viruses 4692 provocans, Calpe (see Oraesia provocans) provocans, Oraesia (Calpe) Proxenus hennia (see Athetis hennia) in Leptinotarsa decemlineata fat-body development in, effects of photoperiod on changes in reserves of 5316
effects of physiological state on 58
in Locusta fat-body, adipokinetic hormone
inhibiting synthesis of 1793 3468 rearing of, techniques for 3322

Psallus betuleti
in USA 2069
in USA (Alaska) 2069
on Betula populifolia
in Alaska 2069
in Pennsylvania 2069

Psallus sepistus Proxenus mindara (see Athetis mindara) proxima, Athalia lugens proximella, Adrasteia (see Teleiodes proximella) in Locusta migratoria hemolymph developmental changes in variation in 1327 proximella, Teleiodes (Adrasteia) proximus, Orthotomicus proximus, Stethorus proylei, Antheraea in Locusta migratoria neurosecretory system, effects of feeding on synthesis of 4221 Psallus seriatus
control of, insecticides for 1549 of 4221
in lucerne, effects of aphids on 5879
in Lymantria dispar nuclear polyhedrosis
virus 3693
in Lymantria monacha nuclear
polyhedrosis virus 3693
in Manduca sexta larval epidermis, JH
binding by 3252
in Melanoplus sanguinipes 764
in Metopolophium dirhodum, and in oats
874 proyiet, Addictates
pruinina, Ctenicera
pruinosa, Stilobezzia
pruinosus, Iridomyrmex
Prunasin (see Benzeneacetonitrile, α-(β-Degg-hatch in, temperature threshold for 2541 in USA 1047, 1549, 2517, 2532, 2541, 4603 glucopyranosyloxy)-)
pruni, Eotetranychus (Schizotetranychus) on cotton damage caused by 2512, 2548, 3549 forecasting infestations of 2541 in Texas 1549 pruni, Hyalopterus pruni, Phyllocoptes pruni, Schizotetranychus (see Eotetranychus resistance to 2525 varietal preferences of 1047, 2517, pruni) in mouse cell lines, insect growth regulators inhibiting synthesis of prunicolá, Brachycaudus prunifoliella, Lyonetia 2532 predators of, effects of insect-resistant cotton on 1047 Pruning preying on, Heliothis virescens, in Texas 4603 in Mythimna unipuncta granulosis virus envelope 4684 of grapevine, role in pest control of 3458 of olive, role in pest control of Psalydolytta, in India 6122
psammae, Laingia
Psammotettix alienus (see P. striatus)
Psammotettix lividellus
in USA 1945
on Feeting armitinacea in Missouri in Oxycarenus hyalinipennis feces in Oxyrhachis tarandus feces 3748 of Quercus, effects on mites of 3061 prunivora, Cydia (Grapholita) prunivora, Grapholita (see Cydia prunivora) in Poetinophora gossypiella, developmental changes in 4779 in Phanerotoma flavitestacea 6091 in potato, effects of carbofuran on 5114 in rice, effects of Nilaparvata lugens on 2387 Acleris tripunctana on, in West Germany on Festuca arundinacea, in Missouri 1945 1575 Diurnea spp. on, in Japan 4640
Eriophyoidea on, in West Germany
Malacosoma neustria on, in USSR
Pandemis heparana on, in British
Columbia 950
plum pox virus in, in UK 5611
Prunus amygdalus (see Almond)
Prunus armeniaca (see Apricot)
Prunus avium (see Cherry)
Prunus cerasifera, Caliroa cerasi on, in
Lithuania 5396
Prunus cerasus Psammotettix striatus control of, cultural 3881 in Morocco 1470 5075 in Samia cynthia eggs, developmental changes in 4788 in Schistocerca gregaria hemolymph, effects of temperature on 6288 in Sesamia nonagrioides hemolymph, developmental changes in 4787 in small isometric viruses of invertebrates 6585 in Poland 3036 in USSR 2346 in orange groves, in Morocco on maize, in Turkestan 2346 on sunflower, in Poland 3036 1470 Spiroplasma citri in, in Morocco 1470 3160 in Spodoptera eridania hemolymph, effects of Beauveria bassiana on 59 wheat dwarf virus in, transmission of 3881 Prunus cerasus in Spodoptera frugiperda hemolyph, effects of Beauveria bassiana on 59 Psathyrostachys juncea, cereal aphids on, survival and reproduction of 2358 Caliroa cerasi on, in Lithuania 5396 Lymantria dispar on, development of in sunflower seeds, effects of Pentatomidae 1587 psenes, Blastophaga Pseudaletia (see Mythimna) Prunus domestica (see Plum)
Prunus institita (see Damson)
Prunus mahaleb, Adoxophyes orana on, in
Yugoslavia 5068 on 6558 in Tessaratoma javanica flight muscles Pseudaletia convecta (see Mythimna 728 convecta) in Tessaratoma javanica scent glands 728 Pseudaletia separata (see Mythimna Yugoslavia 5008
Prunus padus
Phyllobius pyri on 1764
Rhopalosiphum padi on
egg survival in 5384
in Sweden 5521
Yponomeuta evonymellus on, in Finland
2264, 3569 protenor, Papilio
Proteoteras willingana
biology of 1596
in Canada 1596
on Acer negundo, in Alberta 1596
Proteus mirabilis separata)
Pseudaletia unipuncta (see Mythimna unipuncta)
Pseudaletia venalba (see Mythimna venalba)
Pseudaonidia duplex
biology of 2046 blology of 2046
hyperparasitised by, Tetrastichus spp., in
Taiwan 2046
in Taiwan 2046
parasites of, in Taiwan 2046
preyed on by, Pharoscymnus taoi, in
Taiwan 2046
Schesostilla was naticala in in Taiwan 2046 Prunus pensylvanica, phenology of, correlation of Agromyza frontella development and 4884
Prunus persica (see Peach)
Prunus persica × P. davidiana Boarmia selenaria, pathogenicity of Galleria mellonella, Streptococcus faecalis preventing infection by Prothiofos (O-(2,4-dichlorophenyl) O-ethyl Hyalopterus pruni on, in France Sphaerostilba aurantiicola in, in Taiwan S-propyl phosphorodithioate) Myzus varians on, in France 5076 2046

distribution of 5088		Pseudoplusia includens contd.
	flight activity in 1298	food-plant preferences in, induction of
food-plants of 5088	in USA 1298, 5079	6201
in USA 5088	in citrus-picking bins 5619	in Antigua 5121
on Ixora, in Florida 5088	on Citrus, in California 5079	in USA 460, 1286, 1484
on mango, in Florida 5088	on mulberry, in California 1298	mark-release-recapture with, not affected
Pseudaphycus malinus, parasitising,	parasitised by, Zarhopalus corvinus, in	by pre-release acclimation 2623
Pseudococcus comstocki, and biological	-California 5079	Nomuraea rileyi in
control using, in California 5079	seasonal abundance of 1298	in Antigua 5121
Pseudatomoscelis seriatus (see Psallus	sex separation system for 6105	in North Carolina 460
seriatus)	traps for 1298, 6105	
Pseudaulacaspis pentagona		nuclear polyhedrosis virus in 3890
history of 2056	Pseudococcus fragilis (see P. calceolariae)	antigens of 608, 3692
biology of 3056	Pseudococcus lindingeri, taxonomy of,	pathogenicity of 609
descriptions of 1198	transferred to Planococcus 6012	persistence in soil of 3527
development in, effects of temperature on	Pseudococcus longispinus	on cotton, in Antigua 5121
6476	biology of 2958	on soyabean
in Japan 3056	control of, insecticides for 2958	development of 458
in New Hebrides 2935	descriptions of 30	effects of row spacing on 460
in USA 4555	in Egypt 30	
on mulberry, feeding by 1198	in South Africa 2958	effects of sowing date on 460
		effects of sowing rate on 460
on peach, in Florida 4555	on pear, damage caused by 2958	in USA 1484
on tea, in Japan 3056	Pseudococcus obscurus	predators of, in North Carolina 460
oviposition in, effects of temperature on	biology of 2958	Pseudopygmephorus smileyi
6476	control of	sp. nov., description of 2988
parasites of, in Japan 3056	biological 258	in USA 2988
parasitised by, Arrhenophagus	insecticides for 2958	in horse dung, in Pennsylvania 2988
chionaspidis, in Florida 4555	in South Africa 258, 2958	Pseudosarcophaga mamillata (see Agria
preyed on by	on apple, damage caused by 2958	mamillata)
Coccinellidae, in West Indies 249	on pear, damage caused by 2958	Pseudoscorpiones
Sukunahikona prapawan, in New	Pseudococcus parvulus	in Areca catechu nuts, in Karnataka
Hebrides 2935	in USSR 1182	3677
sex pheromone of, identity of 4763	parasitised by, Eucoccidophagus	preying on, Apis spp. 4978
Pseudencyrtus borealis	ferganensis, in Tadzhikistan 1182	pseudoshinae, Tiliaphis
sp. nov., description of 1099	pseudocupulatus, Platypus	Pseudosinella alba
in USA 1099	Pseudohadrotoma (see Megatoma)	in Irish Republic 3437
parasitising	Pseudohylesinus, stridulatory apparatus in	in grassland, in Irish Republic 3437
Paradiplosis tumifex 1100	549	Pseudotorymus brassicae
in Maine 1099	Pseudohylesinus nebulosus nebulosus	biology of 2997
Pseudendaphis	control of, repellents for 6597	in Poland 2996, 2997
biology of 4056	in Canada 6597	parasitising, Dasineura brassicae, in
parasitising, Uroleucon compositae, in	on Pseudotsuga menziesii, in British	Poland 2996, 2997
Karnataka 4056	Columbia 6597	preying on, Dasineura brassicae, in Poland
Pseudeucoila (see Trybliographa)	Pseudohypocera kerteszi	2997
Pseudeucoila bochei (see Ganaspis subnuda)	biology of 4457	Pseudotrichonympha grassii, in,
seudoannulata, Lycosa	parasitising, Apis mellifera 4457	Coptotermes formosanus, effects of wood
Pseudobunaea irius	pseudoleucaspis, Kuwanaspis	preservatives on 1356
on Pinus, in southern Africa 5169	Pseudolimnia , preying on, snails 3843	Pseudotsuga menziesii
on Populus deltoides, in southern Africa	pseudomagnoliarum, Coccus	Choristoneura occidentalis on, in British
5169	Pseudomonas	Columbia 6637
seudocarbonarius, Pantorhytes	Forcipomyia spp. on, development of	Contarinia pseudotsugae on, in Oregon
Pseudocatolaccus arcuatus	1853	2057
sp. nov., description of 2664	in	defoliation of 5778
		Dandrootonus nooudotsugga on
in USSR 2664	Anthonomus grandis, in USA 3546	Dendroctonus pseudotsugae on
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037	in Idaho 560
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037	in Idaho 560 in Oregon 560, 2596
in USSR 2664 **Seedocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus**	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis	in Idaho 560 in Oregon 560, 2596
in USSR 2664 **Seedocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus**	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by
in USSR 2664 **seudocatolaccus nitescens*, taxonomy of 2664 **seudocatolaccus transversus* sp. nov., description of 2664 in USSR 2664	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 **seudocetiferus, Ceroplastes	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072
in USSR 2664 **Seedocatolaccus nitescens, taxonomy of 2664 **Seedocatolaccus transversus **sp. nov., description of 2664 in USSR 2664 **seedoceriferus, Ceroplastes **sseudococi, Anagyrus	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus **sp. nov., description of 2664 in USSR 2664 **seudoceriferus, Ceroplastes **seudococci, Anagyrus **seudococci, Xyphigaster **Pseudococcidae **control of, biological 4174	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on
in USSR 2664 **Seeudocatolaccus nitescens*, taxonomy of 2664 **Seeudocatolaccus transversus* **sp. nov., description of 2664 in USSR 2664 **seeudoceriferus, Ceroplastes* **seeudococci, Anagyrus* **seeudococcidae* **control of, biological 4174 on cassava 1023	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 pseudoceciferus, Ceroplastes pseudococci, Angyrus pseudococci, Xyphigaster Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus seudococci, Anagyrus seudococci, Xyphigaster Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosoclendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 In USSR	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 In USSR	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 pseudococi, Anagyrus pseudococci, Anagyrus pseudococci, Ayphigaster Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus seudococci, Aragyrus seudococci, Xyphigaster Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 In USSR 2664 Pseudococid, Angyrus Pseudococid, Angyrus Pseudococidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood)
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus seudococci, Anagyrus seudococci, Ayphigaster Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372. control of, insecticides for 6372 in India 6372	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595
in USSR 2664 **Pseudocatolaccus nitescens, taxonomy of 2664 **Pseudocatolaccus transversus	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 In USSR 2664 Pseudococid, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus seudococci, Anagyrus seudococci, Anagyrus seudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372. control of, insecticides for 6372 in India 6372	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 in USSR 2664 seudococci, Anagyrus seudococci, Anagyrus seudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesil (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 In USSR 2664 Pseudococii, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae Control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza agiartica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudoobscura, Drosophila	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugae, Dendroctonus
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 In USSR 2664 Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 parasites of, in Gujarat 6372 pseudoobscura, Drosophila Pseudopantomorus latifrons	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Dendroctonus pseudotsugate, Orgyia
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus seudococci, Anagyrus seudococci, Ayphigaster Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372 pseudopscura, Drosophila Pseudopantomorus latifrons in Colombia 5168	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugae, Dendroctonus pseudotsugata, Orgyia psidii, Chloropulvinaria
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 Pseudococi, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria melionella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on sorghum, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudobscura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Dendroctonus pseudotsugae, Dendroctonus pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava)
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 Pseudococi, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372. control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372 pseudopatomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosoclendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus pseudococci, Anagyrus pseudococci, Anagyrus pseudococci, Ayphigaster pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 light activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 parasites of, in Gujarat 6372 parasites of, in Gujarat 6372 pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 Pseudococi, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on sorghum, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudobscura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugae, Contarinia Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus pseudococci, Anagyrus pseudococci, Anagyrus pseudococci, Ayphigaster pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 light activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 parasites of, in Gujarat 6372 parasites of, in Gujarat 6372 pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosoclendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 Pseudococi, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on sorghum, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudobscura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugae, Contarinia Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococci, Anagyrus seudococci, Anagyrus seudococci, Ayphigaster seudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132 sex ratio in, effects of growth regulators	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 parasites of, in Gujarat 6372 pseudoobscura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514 parasitising, Maruca testulalis, in Nigeria 6514	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugae, Dendroctonus pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217 dispersal of 5111
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococi, Anagyrus seudococi, Anagyrus seudococi, Arphigaster Pseudococidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132 sex ratio in, effects of growth regulators on 1162	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria melionella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514 parasitising, Maruca testulalis, in Nigeria 6514 Pseudoplusia includens	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Opendroctonus pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217 dispersal of 5111 food-plants of, locating of 4172
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2684 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 Pseudococi, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132 sex ratio in, effects of growth regulators on 1162 Pseudococcus comstocki	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudopscura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514 parasitising, Maruca testulalis, in Nigeria 6514 Pseudoplusia includens activity in, diel rhythm of 98	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosoclendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217 dispersal of 5111 food-plants of, locating of 4172 humidity responses in 3015
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococci, Anagyrus Pseudococcidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132 sex ratio in, effects of growth regulators on 1162 Pseudococcus comstocki attractants for 6105	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 parasites of, in Gujarat 6372 pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514 Pseudoplusia includens activity in, diel rhythm of 98 attractants for 2623	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugae, Orgyia psidii, Chloropulvinaria Psidium guajaya (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217 dispersal of 5111 food-plants of, locating of 4172 humidity responses in 3015 in France 214, 217
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococi, Anagyrus seudococi, Anagyrus seudococi, Appligaster Pseudococidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132 sex ratio in, effects of growth regulators on 1162 Pseudococcus comstocki attractants for 6105 control of	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudonobscura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514 parasitising, Maruca testulalis, in Nigeria 6514 Pseudoplusia includens activity in, diel rhythm of 98 attractants for 2623 control of 1286	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217 dispersal of 5111 food-plants of, locating of 4172 humidity responses in 3015 in France 214, 217 in Poland 4014
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 In USSR 2664 Pseudococi, Anagyrus Pseudococi, Anagyrus Pseudococi, Anagyrus Seudococi, Ayphigaster Pseudococidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132 sex ratio in, effects of growth regulators on 1162 Pseudococcus comstocki attractants for 6105 control of biological 5079	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza agiaratica biology of 6372 control of, insecticides for 6372 in India 6372 on sorghum, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudopsocura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514 parasitising, Maruca testulalis, in Nigeria 6514 Pseudoplusia includens activity in, diel rhythm of 98 attractants for 2623 control of 1286 biological 3527	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217 dispersal of 5111 food-plants of, locating of 4172 humidity responses in 3015 in France 214, 217 in Poland 4014 in UK 3015, 5111
in USSR 2664 Pseudocatolaccus nitescens, taxonomy of 2664 Pseudocatolaccus transversus sp. nov., description of 2664 in USSR 2664 seudococi, Anagyrus seudococi, Anagyrus seudococi, Appligaster Pseudococidae control of, biological 4174 on cassava 1023 on mulberry, in India 378 on pineapple, damage caused by 4013 on rice, in Papua New Guinea 903 parasitised by, Eremophasma spp., in Tadzhikistan 2172 taxonomy of basicoxal setae as characters for 28 trochanteral sensoria as characters for 28 Pseudococcus calceolariae biology of 2958 control of insecticides for 2958 traps for 5633 flight activity in 5633 in Italy 5633 in South Africa 2958 on apple, damage caused by 2958 on Citrus, in Italy 5633 rearing of, techniques for 1162 sex pheromone of, collecting of 6132 sex ratio in, effects of growth regulators on 1162 Pseudococcus comstocki attractants for 6105 control of	Anthonomus grandis, in USA 3546 Nezara viridula, transmission of 4037 soyabean, damage caused by 4037 Pseudomonas aeruginosa, in, Galleria mellonella, Streptococcus faecalis preventing infection by 4134 Pseudomonas carnea in Agrotis exclamationis, pathogenicity of 2613 A. segetum, pathogenicity of 2613 Pseudomyrmex brunneus in USA 6627 preying on, Eriocraniella spp., in Florida 6627 Pseudonapomyza asiatica in Philippines 3938 on rice, in Philippines 3938 Pseudonapomyza gujaratica biology of 6372 control of, insecticides for 6372 in India 6372 on maize, in Gujarat 6372 on sorghum, in Gujarat 6372 parasites of, in Gujarat 6372 pseudonobscura, Drosophila Pseudopantomorus latifrons in Colombia 5168 on Pinus caribaea, damage caused by 5168 Pseudoperichaeta laevis in Nigeria 6514 parasitising, Maruca testulalis, in Nigeria 6514 Pseudoplusia includens activity in, diel rhythm of 98 attractants for 2623 control of 1286	in Idaho 560 in Oregon 560, 2596 Gilletteella coweni on, damage caused by 3072 insect pests of, in Italy 6592 insecticides in, persistence of 3707 insecticides on, effects of rain on 2072 Nosodendron californicum on, in Oregon 581 Orgyia pseudotsugata on in British Columbia 519 in Oregon 519, 5215 in Washington 5215 Phantacrus lobatus on, in California 1078 Scolytidae on, in British Columbia 6597 Xyloterus lineatus on, in British Columbia 4097, 5213 Pseudotsuga menziesii (wood) Gnathotrichus spp. in, in British Columbia 1595 Xyloterus lineatus in, in British Columbia 1595 pseudotsugae, Contarinia pseudotsugae, Contarinia pseudotsugata, Orgyia psidii, Chloropulvinaria Psidium guajava (see Guava) Psila rosae control of growth regulators for 2023 insecticides for 214, 217 dispersal of 5111 food-plants of, locating of 4172 humidity responses in 3015 in France 214, 217 in Poland 4014

Psila rosae contd.	Psylla phiebophyllae	Psyllaephagus cholcinellus contd.
on carrot damage caused by 4014	biology of 513 in USA (Alaska) 513	parasitising, <i>Pachypsylloides</i> spp., in Turkmenia 280
distribution pattern of 3015	on Salix phlebophylla, in Alaska 513	Psyllaephagus colposceniae, in USSR 6019
in France 214	on Salix reticulata, in Alaska 513	Psyllaephagus tamaricicola
in UK 5111	preyed on by, Syrphidae, in Alaska 513	sp. nov., description of 6019
in West Germany 2023	Psylla pyri	in USSR 6019
resistance to 5927	biology of 966, 5607	Psyllaephagus tokgaevi
oogenesis in 3531	control of 5607	sp. nov., description of 6019
reproductive system in 3531	growth regulators for 1982	in USSR 6019
temperature responses in 3015	insecticides for 968	Psyllaephagus tyrrheus
Psilocorsis, parasites of, in Missouri 6224	integrated 209, 1450	sp. nov., description of 280
Psilocorsis cryptolechiella	Entomophthora spp. in	in USSR 280
biology of 561, 6224	effects of fungicides on 209	parasitising, Pachypsylloides spp., in
in USA 561, 6224	in Italy 209, 6457, 6469	Turkmenia 280
on Quercus	Entomophthoraceae in, effects of	Psyllidae
in Missouri 6224	fungicides on 1450	control of, insecticides for 2951
in USA 561 Psilocorsis quercicella	in France 968, 5607	in snowfields, in California 1838
biology of 561, 6224	in Italy 209, 1450, 6457, 6469	on apple, in Norway 5605
in USA 561, 6224	in Netherlands 966	traps for 379
on Quercus	in Switzerland 1982	Psylliodes attenuatus
in Missouri 6224	on pear	in Poland 3702
in USA 561	in France 5607	on hop, damage caused by 3702
Psilocorsis reflexella	in Italy 6457	Psylliodes chrysocephalus
biology of 561, 6224	in Netherlands 966	biology of 2000
in USA 561, 6224	in Switzerland 1982	control of
on Quercus	parasites of, in Italy 6469	insecticides for 3813
in Missouri 6224	parasitised by	timing of 2000
in USA 561	Prionomitus mitratus	development in, effects of temperature on
Psilus, parasitising, Rhagoletis indifferens, in	in France 5607	5651
Oregon 1984 Psithyrus, labial glands in, secretion of	in Italy 6457	embryonic development in, effects of
3744	predators of in France 5607	temperature on 2000 in France 3813
psociformis, Conwentzia	in Italy 6457, 6469	in Poland 2469, 3702
Psocoptera	Psylla pyricola	in Switzerland 5651
in cacao plantations, in Costa Rica 5133	biology of 5067	in UK 2000
in stored grain 1609	control of 5067	on rape
on Citrus, sampling of 1848	cultural 5609	damage caused by 3702
Psophocarpus, bibliography 1006	insecticides for 4888	forecasting infestations of 5651
Psophocarpus tetragonolobus, bibliography	descriptions of 5067	in England 2000
1006	food-plants of 1838	in France 3813
Psophocarpus tetragonolobus (stored seeds)	illustrations of 6470	in Poland 2469
Acanthoscelides obtectus in, resistance to 5222	in Canada 5074 in Czechoslovakia 4649	Psylliodes picina food-plants of 879
Callosobruchus spp. in, resistance to	in Denmark 6470	in USA 879
5222		on maize, in Pennsylvania 879
	in UK 5067 in USA 1838, 3483, 4888, 5609	
Zabrotes subfasciatus in, resistance to 5222	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838	Psylliodes punctulatus
Zabrotes subfasciatus in, resistance to 5222 Psylla	in USA 1838, 3483, 4888, 5609	
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasities of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in ISSR 2760	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 6074	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius krastzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula)
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Fomoria (Nepticula)
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 preliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella, Nepticula (see Fomoria pteliacella)
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula (see Fomoria pteliaeella) Pterandrus ross
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella) Pterandrus rosa control of, biological 694
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 prededors of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Fomoria (Nepticula) pteliaeella, Permoria (Nepticula) Pterandrus ross control of, biological 694 in Réunion 694 rearing of, diets for 177
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Pepticula (see Fomoria pteliaeella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Empoasca pteridis, Mastopoda
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in casava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Fomoria (Nepticula) pteliaeella, Pemoria (Nepticula) pteliaeella, Pomoria (Nepticula) pterandrus ross control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on,
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Prepticula (see Fomoria pteliacella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Fomoria (Nepticula) pteliaeella, Pemoria (Nepticula) pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 preyed on by, Harmonia conformis, in New South Wales 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella, Nepticula (see Fomoria pteliacella, Nepticula (see Fomoria pteliacella, Sigosca pteridis, Empoasca pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 preyed on by, Harmonia conformis, in New South Wales 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Fomoria (see Fomoria pteliacella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 On pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 in Czechoslovakia 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in casava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Fomoria (Nepticula) pteliaeella, Fomoria (Nepticula) pteliaeella, Pomoria (Nepticula) pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple damage caused by 3982, 5067	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella, Nepticula (see Fomoria pteliacella) Pterandrus ross control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614 control of, insecticides for 398, 5614 descriptions of 1972, 5614
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 prededors of, parasitism of 3067 predators of, parasitism of, parasiti	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 in Czechoslovakia 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649 psyllae, Trechnites	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliacella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliacella, Fomoria (Nepticula) pteliacella, Nepticula (see Fomoria pteliacella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614 control of, insecticides for 398, 5614 descriptions of 1972, 5614 distribution of 5614
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 On Acacia decurrens, in New South Wales 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 on Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple damage caused by 3982, 5067 in Norway 5605 Psylla palmeni	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 in Czechoslovakia 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649 psyllae, Trechnites Psyllaephagus calligonicola	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobra, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula (see Fomoria pteliaeella, Nepticula (see Fomoria pteliaeella, Pietroula) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614 control of, insecticides for 398, 5614 descriptions of 1972, 5614 distribution of 5614 in India 398
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 Psylla hartigi in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 Preyed on by, Harmonia conformis, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple damage caused by 3982, 5067 in Norway 5605 Psylla palmeni biology of 513	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 on Alnus glutinosa, in Bulgaria 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649 psyllaephagus calligonicola sp. nov., description of 280	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula (see Fomoria pteliaeella, Nepticula (see Fomoria pteliaeella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614 control of, insecticides for 398, 5614 descriptions of 1972, 5614 distribution 5614 in India 398 in Italy 1972, 5614
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 Psylla hartigi in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple damage caused by 3982, 5067 in Norway 5605 Psylla palmeni biology of 513 in USA (Alaska) 513	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 in Czechoslovakia 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649 psyllae, Trechnites Psyllaephagus calligonicola sp. nov., description of 280 in USSR 280	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula (see Fomoria pteliaeella, Nepticula (see Fomoria pteliaeella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614 control of, insecticides for 398, 5614 descriptions of 1972, 5614 distribution 5614 in India 398 in Italy 1972, 5614
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 On Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple damage caused by 3982, 5067 in Norway 5605 Psylla palmeni biology of 513 in USA (Alaska) 513 on Salix alaxensis, in Alaska 513	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 in Czechoslovakia 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649 psyllae, Trechnites Psyllaephagus calligonicola sp. nov., description of 280 in USSR 280 parasitising, Pachypsylloides spp., in	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in casava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula) pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula) pteliaeella, Nepticula pteliae
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 Psylla hartigi in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 predators of, parasitism of 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple damage caused by 3982, 5067 in Norway 5605 Psylla palmeni biology of 513 in USA (Alaska) 513 on Salix alaxensis, in Alaska 513 on Salix alaxensis, in Alaska 513	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 parasitised by, Chalcidoidea, in Ontario 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 on Alnus glutinosa, in Bulgaria 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649 psyllaephagus calligonicola sp. nov., description of 280 in USSR 280 parasitising, Pachypsylloides spp., in Turkmenia 280	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in cassava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula (see Fomoria pteliaeella) Pterandrus rosa control of, biological 694 in Réunion 694 rearing of, diets for 177 pteridis, Empoasca pteridis, Mastopoda Pteridium aquilinum, Mastopoda pteridis on, in Manitoba 4971 Pterocallis heterophyllus sp. nov., description of 5402 in North Korea 5402 on Corylus heterophylla, in North Korea 5402 Pterochloroides persicae biology of 5614 control of, insecticides for 398, 5614 descriptions of 1972, 5614 on almond, in Italy 1972, 5614 on apricot, in Italy 1972, 5614 on apricot, in Italy 1972, 5614
Zabrotes subfasciatus in, resistance to 5222 Psylla in Tadzhikistan 2760 on Betula, in circumpolar zone 5150 Psylla alni in Turkey 1310 on Alnus, in Turkey 1310 on Alnus, in Turkey 1310 Psylla candida in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla fera in USSR 2760 on pear, in Tadzhikistan 2760 Psylla hartigi in Finland 5150 on Betula, in Finland 5150 On Betula, in Finland 5150 Psylla jucunda in Australia 3067 on Acacia decurrens, in New South Wales 3067 predators of, parasitism of 3067 preyed on by, Harmonia conformis, in New South Wales 3067 Psylla mali biology of 5067 control of 5067 descriptions of 5067 in Norway 5605 in Poland 3982 in UK 5067 on apple damage caused by 3982, 5067 in Norway 5605 Psylla palmeni biology of 513 in USA (Alaska) 513 on Salix alaxensis, in Alaska 513	in USA 1838, 3483, 4888, 5609 in snowfields, in California 1838 on pear damage caused by 5067 effects of sprinkler irrigation on 5609 in Czechoslovakia 4649 in Ontario 5074 in Oregon 3483 in Pennsylvania 4888 parasites of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 predators of effects of insect growth regulators on 3483 review 5074 Psylla pyrisuga in Austria 1755 on pear, in Austria 1755 Psylla uncatoides control of, soaps for 1063 in USA 1063 Psylla vasilievi in Czechoslovakia 4649 in USSR 2760 on pear in Czechoslovakia 4649 in Tadzhikistan 2760 Psylla visci in Bulgaria 4649 in Czechoslovakia 4649 on Alnus glutinosa, in Bulgaria 4649 on Loranthus europaeus, in Czechoslovakia 4649 psyllae, Trechnites Psyllaephagus calligonicola sp. nov., description of 280 in USSR 280 parasitising, Pachypsylloides spp., in	Psylliodes punctulatus biology of 4021 in Canada 4021 on rape, in Manitoba 4021 seasonal abundance of 4021 Psyllobora, in casava fields, in Brazil 2498 Psylloidea in British Isles 6029 in Turkey 1310 taxonomy of 1179 psylloides, Gibbium Ptelea trifoliata, Fomoria pteliaeella on 2168 Pteleobius kraatzi in Yugoslavia 3568 on Ulmus, in Yugoslavia 3568 parasites of, in Yugoslavia 3568 pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula) pteliaeella, Fomoria (Nepticula) pteliaeella, Nepticula) pteliaeella, Nepticula pteliae

ubject Index		1097
Pterochlorus persicae (see Pterochloroides	Pterostichus melanarius contd.	Pulse crops
persicae) Pterocomma italicum	in maize fields, in West Germany 6357 preying on, Dasineura tetensi, in USSR	insect pests of, in Sarawak 2651
sp. nov., description of 5762	3456	pests of, in Kerala 1902 Pulses (stored), malathion in, persistence of
in Italy 5762	Pterostichus oblongopunctatus, in Poland	1617
in Switzerland 5762 on Salix purpurea, distribution pattern of	3605 Pterostichus versicolor	Pulvinaria, taxonomy of 4205 Pulvinaria delottoi
5762	activity in 5374	sp. nov., description of 5140
Pterocomma jacksoni, taxonomy of,	in Netherlands 4874	in South Africa 5140
characters distinguishing P. italicum and 5762	traps for 4874 Pterothysanidae, taxonomy of 5295	in USA 5140 on Carpobrotus edulis, in California
Pterocomma pilosum, in Spain 3780	ptilinoides, Oligomerus	5140
terocommatini, in India 3777 Pterohelaeus alternatus	Ptinidae, in dwellings, in West Germany 3107	on Crassula lycopopioides, in South Africa
biology of 1919	Ptinus fur	5140 Pulvinaria hydrangeae (see Eupulvinaria
control of 1919 in Australia 1919	in West Germany 3107 in dwellings, in West Germany 3107	hydrangeae)
Pterohelaeus darlingensis	Ptinus sexpunctatus	Pulvinaria iceryi in Mauritius 1372, 5513
biology of 1919 control of 1919	in UK 2090 in dwellings, in England 2090	on sugar-cane
in Australia 1919	Ptinus subpilosus, in stored products,	damage caused by 1372
teromalidae in Indian subcontinent 702	imported into USSR 1607 Ptinus tectus	varietal preferences of 5513 population dynamics of 1372
in Lithuania 5395	biology of 5801	Pulvinaria innumerabilis, taxonomy of,
parasitising Coleotechnites edulicola, in New	descriptions of 5801	characters distinguishing P. delottoi and
Mexico 576	in UK 5801 in West Germany 3107	5140 Pulvinaria mesembryanthemi (see also
Phytomyza horticola, in Honshu 427	in dwellings, in West Germany 3107	Pulvinariella mesembryanthemi)
taxonomy of 702 behavioural characters for 3845	in foodstuffs, damage caused by 5801 Ptomaphagus medius	in South Africa 5140 in USA 5140
Pteromalus	in West Germany 6358	on Carpobrotus edulis, in California
parasitising Euproctis melania, in Iraq 516	in maize fields, in West Germany 6358 Ptychopteridae, in Minnesota 2763	5140
Oulema lichenis, in USSR 1386	ptychora, Cydia	taxonomy of, characters distinguishing <i>P.</i> delottoi and 5140
Pteromalus bottnicus sp. nov., description of 257	ptyoptera, Anisoplaca pubens, Gastralius	Pulvinariella, taxonomy of 4205
hyperparasitising, Yponomeuta	pubescens, Acromyrmex lundii	Pulvinariella mesembryanthemi (see also
evonymellus, in Finland 257	pubescens, Agonoscelis	Pulvinaria mesembryanthemi) in South Africa 4450
in Finland 257 parasitising, <i>Diadegma armillata</i> , in	Publilia, tended by, Formica perpilosa 2805	in USA 4450
Finland 257	Puccinia caricis, Amblyseius rademacheri	parasitised by, Prococcophagus
Pteromalus chrysos in Yugoslavia 5792	on, in Hokkaido 3841 Puccinia helianthi, in, sunflower, increasing	neserorum, in South Africa 4450 pulvinatus, Euchorthippus
parasitising	susceptibility to Melanoplus differentialis	pulvini, Rabdophaga (see R. clavifex)
Apanteles spp., in Yugoslavia 5792 Meteorus versicolor, in Yugoslavia	4057 pudibunda, Dasychira	pumicana, Cnephasia pumila, Agathis
5792	pudica, Chrysopa	pumila, Sapyga
Pteromalus puparum biology of 404	pudicus, Carpocoris puella, Atomosia	pumilata, Gymnoscelis (see G. rufifasciata) pumilio, Carcinops
descriptions of 404	Pueraria phaseoloides, Platypria coronata	pumilionis, Bracon
in Australia 1497	on, in Ghana 362 Puerto Rico	Pumpkin (see Squash) punctata, Diploptera
in Malaysia 404 in USA 1000	arthropod pests in, new records of 814	punctata, Dipropiera punctata, Hypera
parasitising	Heliothis virescens in 64	punctatum, Anobium
Artogeia rapae in Florida 1000	Limnoria tripunctata in, in piles 4130 Pseudaonidia trilobitiformis in 5088	punctatum, Pentodon bidens puncticollis, Cylas
in New South Wales 1497	pugnax, Oebalus	puncticollis, Sitona
Papilio demoleus, in West Malaysia 404	pulchella, Utetheisa pulchellana, Argyrotaenia	punctifacies, Chrysocharis punctiferalis, Dichocrocis
Pteromalus semotus	pulchellus, Corticoris	punctiger, Cletus
in Egypt 4477 in UK 5157	pulchellus, Diadromus pulchellus. Hemiteles	punctiger, Ormyrus punctigera, Heliothis
parasitising, Rhyacionia duplana, in	pulcher, Brevipalpus (Cenopalpus)	punctigera, Urostylis
Scotland 5157 Pteromalus sylveni	pulcher, Cenopalpus (see Brevipalpus pulcher)	punctipennis, Euceraphis punctipes, Geocoris
sp. nov., description of 2660	pulcher, Eudiagogus	punctiventris, Homotropus (see Sussaba
in Sweden 2660 parasitising, Megastigmus bipunctatus, in	pulchricornis, Meteorus pulchripennis, Rhopalicus	punctiventris) punctiventris, Sussaba (Homotropus)
Sweden 2660	pulchripes, Diglyphus	punctulata, Crematogaster
Pteronemobius taprobanensis	pulchripes, Rogas pulchrum, Eurydema	punctulator, Orgilus punctulatus, Anagyrus
in Japan 349, 4947 in lawns, in Japan 349	Pulicalvaria thujaella	punctulatus, Anagyrus punctulatus, Cletus
ovipositor in, variation in length of 4947	development in, effects of temperature on	punctulatus, Psylliodes
photoperiod as affecting 349 Pteronidea ribesii (see Nematus ribesii)	5760 in Canada 2584, 5760	punctum, Amyna punctum, Stethorus
terophori, Scambus	mortality in 2584	Puncture vine (see Tribulus terrestris)
Pteroptrix chinensis, taxonomy of, Archenomus maritimus misidentified as,	on Thuja occidentalis, in Ontario 2584, 5760	Punica granatum (see Pomegranate) punicae. Tenuipalpus
in USSR 4980	parasitised by, Hymenoptera, in Ontario	puparum, Pteromalus
Pterostichini, in South America 14	2584 pulicaria, Chaetocnema	purchasi, Icerya 1H-Purine-2,6-dione, 3,7-dihydro- (xanthine
Pterostichus, in tobacco plantations, in Kentucky 6261	pulicaria, Megaselia	attractan
Pterostichus chalcites	Puliciphora borinquenensis dispersal of 2732	for, Neoaplectana carpocapsae 1619 1H-Purine-2,6-dione, 3,7-dihydro-1,3-
carbofuran in, toxicity of 1394 in USA 1394, 6196	intraspecific phoresy in 2732	dimethyl- (theophylline)
in maize fields, in Iowa 1394	running in, stop-go pattern of 3752	
in soyabean fields, in Iowa 6196 seasonal abundance of 1394, 6196	pullata, Arge Pullus (see Scymnus)	in Drosophila melanogaster, not inducing
terbufos in, toxicity of 1394	pullus, Acanthoscelides	morphogenesis in imaginal disks 327
Pterostichus melanarius compound eyes in 1227	Pullus impexus (see Scymnus impexus) Pullus syriacus (see Scymnus syriacus)	in Galleria mellonella, effects on prothoracic glands of 6085
in USSR 3456	Pulp, cellulose, diet component for, Ceratitis	in Hyalophora cecropia, enhancing
in West Germany 6357	capitata 3747	sensitivity to eclosion hormone 3741

on Abies 6622 on Picea 6622

1712

pyrisuga, Psylla

```
1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-
trimethyl-, in Gallería mellonella, effects
 on prothoracic glands of 6085
1H-Purine-2,6,8(3H)-trione, 7,9-dihydro-
      (uric acid)
    attractant for, Neoaplectana carpocapsae
         1619
    in Acheta domesticus feces 3256
    in Amsacta albistriga, effects of nuclear
         polyhedrosis virus on 3010
    in Antheraea mylitta eggs, developmental changes in 4473
    in Bombyx mori urine 6068
    in Gilpinia hercyniae feces, effects of diet
         on 4625
    in insect feces, contribution to total
nitrogen of 1814
    in Isoptera 4223
    in Locusta migratoria, effects of crowding
         on 3259
    in maize grain, effects of insect pests on
         4663
    in Manduca sexta frass 4246
    in Manduca sexta larvae, developmental
         changes in 4247
Puromycin, in Galleria mellonella, not
      preventing hemocyte destruction by Chilo iridescent virus 3163
purpureus, Tetrastichus
pusilla, Fenusa
pusilla, Oscinella
pusilla, Sesselia
pusillus, Chlaenius
pusillus, Culicoides
pusillus, Delphastus
pusillus, Neoclytus
pusillus, Phloeonomus
pustulae, Masakimyia
pustulans, Asterolecanium
pustulans, Asterolecanium
pustulata, Mylabris
pustulosa, Henosepilachna
putorius, Schedorhinotermes
putrescentiae, Tyrophams
putrescentiae, Tyrophagus
Putrescine (see 1,4-Butanediamine)
putripennella, Blastodacna (see B. atra)
puttleri, Euplectrus
PVA (see Ethenol, homopolymer)
PVC (see Ethene, chloro-, homopolymer)
Pycna repanda
   in India 2436
    on fruit trees, in Himachal Pradesh 2436
Pycnoporus sanguineus, in, rubber wood, responses of termites to 5226

Pydanon (hexahydro-4-hydroxy-3,6-dioxo-4-
      pyridazineacetic acid)
    in rape, reducing oviposition by insect pests 3515
Pydrin (see Fenvalerate)
Pyemotes, on man, dermatitis caused by 6642
Pyemotes scolyti
in Poland 4616
parasitising, Scolytus spp., in Poland
         4616
Pyemotes tritici 6642
control of, UV-irradiation for 3647
 Pyemotes ventricosus
   in India 3680, 6666
in Jordan 5641
in USSR 602
    parasitising
        Apis mellifera, in USSR 602
        Callosobruchus analis, in India
        Zabrotes subfasciatus, in India
    preying on, Clinodiplosis oleisuga, in
Jordan 5641
Pyemotes zwoelferi
in France 6642
    in dried flowers 6642
on man, prurigo caused by 6642

Pyemotidae, in industrial reclamation sites, in England 3424
Pygaera cupreata (see Clostera cupreata)
Pygaera fulgurita (see Clostera fulgurita)
Pygiopachymerus, taxonomy of, food-plant
preferences as characters for 6626
pygmaea, Heteropeza
pygmaea, Plagiolepis
pygmaeus, Scolytus
pygmaeus, Tytthus
```

Pygmephorus, taxonomy of 2987

```
Pygmephorus athiasae (see Siteroptes
                                                                                        Pyrethrins contd.
                                                                                            in Spodoptera litura, effects of post-
                                                                                                  treatment temperature on susceptibility
  Pygmephorus flechtmanni (see Siteroptes
       flechtmanni)
                                                                                                  to 5259
 Pygmephorus kneeboni (see Siteroptes
                                                                                            resistance to, in, Sitophilus granarius, and cross-resistance 5814
       kneeboni)
 Pygmephorus mesembrinae (see Siteroptes
                                                                                            synergists for
       mesembrinae)
                                                                                                insect growth regulators as 2638
                                                                                                methylenedioxyphenols 4151
piperonyl butoxide as 1490, 1491,
 Pygmephorus murphyi
     sp. nov., description of 2987
                                                                                                      2638, 3140, 3141, 6622
     in mushroom houses, in Americas 2987
 Pygmephorus quadratus
                                                                                            with Bacillus thuringiensis, antagonistic
     descriptions of 2987
                                                                                                  668
     in mushroom houses, in Americas
                                                                    2987
                                                                                            with phosphamidon
     taxonomy of, lectotype for 2987
                                                                                                against
 Pygmephorus sellnicki (see Bakerdania
                                                                                                    Choristoneura fumiferana 541
       sellnicki)
 pygmeus, Cephus
 pylades, Graphium
                                                                                        Pyrethroids
 Pyralidae
                                                                                            development of 1697
environmental degradation of, review
     in Arunachal Pradesh 2756
     in Soviet Far East 155
                                                                                                  5260
     on rice, in India 1930
                                                                                            esterase degradation of 3198
                                                                                            in animals, metabolism of, review
                                                                                            in guinea-pig, toxicity of 1157
     control of, insecticides for
     on Azolla, in Orissa 278
                                                                                            in Locusta migratoria, electrophysiological
pyralis, Photinus
pyralis, Sacadodes
                                                                                            symptoms of 5344
in man, toxicity of 1157
 pyrastri, Scaeva
                                                                                            in plants, metabolism of, review
 Pyrausta machaeralis
                                                                                            review 3706
     biology of 1579
                                                                                            structure-activity relationships in 654
     control of, insecticides for 1579 in China 1579
                                                                                        Pyrethrum (see Pyrethrins)
                                                                                        pyrgo, Pediobius
                                                                                        Pyrgodera armata
     natural enemies of, in Kwangtung
Province 1579
                                                                                            in Iraq 4453
                                                                                            parasitised by, mites, in Iraq 4453
     on Tectona grandis, in Kwangtung
           Province 1579
                                                                                        Pyrgoides orphana
 Pyrausta sticticalis (see Loxostege
                                                                                            biology of 5774
       sticticalis)
                                                                                            in Australia 5774
 1H-Pyrazole-1-carboxamide, N,3-bis(4-
                                                                                            on Acacia dealbata, damage caused by
chlorophenyl)-4,5-dibydro-
against, Leptinotarsa decemlineata 3216
photodegradation of, effects of particle
size on 3216
1H-Pyrazole, 3,5-bis(4-chlorophenyl)-1-[[(4-
chlorophenyl)amino]carbonyl]-4,5-
                                                                                                  5774
                                                                                        parasites of, in Tasmania 5774
Pyrgomorphidae
in Thailand 2320
                                                                                        oviposition in 3331

pyri, Cacopsylla

pyri, Curculio (see Phyllobius pyri)
     against
                                                                                        pyri, Dasineura
         Aedes aegypti 2627
Leptinotarsa decemlineata 2627
                                                                                        pyri, Epitrimerus
Leptinotarsa decemlineata 2627
Pieris brassicae 2627

1H-Pyrazole, 4,5-dihydro-3,4-diphenyl-1
[(phenylamino)carbonyl]-, insecticidal
activity of derivatives of 639

1H-Pyrazolium, 1,2-dimethyl-3,5-diphenyl-
(see Difenzoquat)

Pyrazolo[1,5-a]pyrimidine-6-carboxylic acid,
2-[(diethoxyphosphinothioyl)oxy]-5-
methyl-, ethyl ester (see Pyrazophos)

Pyrazophos (ethyl 2-[(diethoxyphosphinothioyl)oxy]-5-methylpyrazolo[1,5-
a]pyrimidine-6-carboxylate)
in Apis mellifera, toxicity of 1710

Pyrethric acid (3-(3-methoxy-2-methyl-3-
oxo-1-propenyl)-2,2-
dimethylcyclopropanecarboxylic acid)
1-methylheptyl ester, photoisomerisation
of 2127

Pyrethrins
                                                                                        pyri, Phyllobius (Curculio)
                                                                                        pyri, Psylla
pyri, Stephanitis
                                                                                       pyri, Stephanitis
pyri, Typhlodromus
pyricola, Cacopsylla (see Psylla pyricola)
pyricola, Psylla (Cacopsylla)
4-Pyridazineacetic acid, hexahydro-4-
hydroxy-3,6-dioxo- (see Pydanon)
Pyridine, 5-[[5-(3-butyl-3-methyloxiranyl)-3-
methyl-2-pentenyl]oxy]-2-ethyl-, (E)-,
against, pests of stored products 4713
Pyridine, 5-[[5-(3,3-dimethyloxiranyl)-3-
methyl-2-pentenyl]oxy]-2-ethyl-, (E)-,
against, pests of stored products 4713
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-
(S)-
                                                                                            (S)-
                                                                                               against, Coccus hesperidum, on pot
plants 2977
in DDT formulations, as photosensitiser
 Pyrethrins
                                                                                                      5258
                                                                                                in Drosophila melanogaster, toxicity of
        Euproctis chrysorrhoea, on Rubus 668
Gryllodes sigillatus 6711
                                                                                                      6699
                                                                                            sulfate, (S)-, in Coccinella septempunctata,
         Orgyia pseudotsugata
on Abies 5215
                                                                                                  toxicity of
                                                                                        Pyrilla perpusilla control of, insecticides for 3879, 5515
    on Abies 5215
on Pseudotsuga 5215
pests of stored grain 3130
pests of sultanas 3140, 3141
pests of vegetable crops 1490
Tribolium castaneum 2638, 4151
for flushing insects from grassland 2412
in Gryllodes sigillatus, effects of crowding
on susceptibility to 6711
in Laodelphax striatella, effects of post-
treatment temperature on susceptibility
                                                                                            eggs of, effects of low temperatures on
                                                                                                  42.81
                                                                                            in India 3879, 4447, 5515
in Pakistan 4447
                                                                                            on sugar-cane, in Gujarat 3879, 5515 parasitised by
                                                                                       parastissed by

Ocencyrtus papilionis
in India 4447
in Pakistan 4447
5-Pyrimidinemethanol, α-(2-chlorophenyl)-α-(4-chlorophenyl)- (see Fenarimol)
4-Pyrimidinol, 6-methyl-2-(1-methylethyl)-
in maize, diazinon metabolite 1156
           treatment temperature on susceptibility
           to 5259
    in Platycorynus peregrinus, effects on
neurosecretory system of 4707
in Plutella xylostella, effects of post-
                                                                                            in soil, diazinon photoproduct 1713
           treatment temperature on susceptibility
           to 5259
                                                                                        pyrina, Żeuzera
```

in soil, residues of 1491

Subject Index		1099
Pyrithione sodium, with 1-dodecanamine,	Quadraspidiotus perniciosus contd.	Quebec contd.
for destroying bacteria in insect virus	in USSR 1973, 2955, 4980	Lygus lineolaris in contd.
preparations 2110	on apple	on strawberry 364
oyrivora, Contarinia	in Romania 5603	market-garden crops in, insect pests of
oyrivora, Cydia (Laspeyresia)	in Washington 2434	269
oyrivora, Laspeyresia (see Cydia pyrivora)	on fruit trees	Neodiprion lecontei in, on Pinus 6617
pyrivorella, Bucculatrix	damage caused by 2955	Orthoptera in 5407
Pyrochroa coccinea	in Caucasus 1973	Orthosia hibisci in, on strawberry 1439
digestive enzymes in 1084 feeding behaviour in 1084	on mulberry, in India 378 on peach, in California 2434	Phyllophaga anxia in 4147
in France 1084	on pear, in Oregon 2434	natural enemies of 6303
in Turkey 1084	parasites of, in USSR 4980	Pyrrhalta viburni in 503 Scutelleroidea in 5408
on Abies bornmuelleriana, in Turkey	parasitised by	
1084	Aphytis aonidiae 1347	Sthenopis quadriguttatus in, on Populus 511
on Pinus sylvestris, in Turkey 1084	in California 1346	Thymelicus lineola in, on Phleum 3978
on Ulmus campestris, in France 1084	Hemisarcoptes malus, in California	Queensland
Pyroderces, on oil palm, pollination by	1346	Amnemus superciliaris in, on Desmodium
1437	Prospaltella perniciosi, in California	2921
Pyronota festiva	1346	Austroasca alfalfae in, on lucerne 3447
biology of 5871 in New Zealand 5871	rearing of, techniques for 2773 sex pheromone of	A. viridigrisea in 2416
in pastures, in New Zealand 5871	identity of 5276	on lucerne 3447
Pyronota laeta	laboratory synthesis of 5277	biological control of weeds in 5498
biology of 5871	quadratus, Apanteles	cabbage in, insect pests of 2005
in New Zealand 5871	quadratus, Pygmephorus	Camponotus spp. in 6021
in pastures, in New Zealand 5871	quadricollis, Cathartus	Chortoicetes terminifera in 6274, 6282
Pyrrhalta luteola (see Xanthogaleruca	quadridens, Ceutorhynchus (see C.	Citrus in, biological control on 5949
luteola)	pallidactylus)	Contarinia sorghicola in
Pyrrhalta viburni	quadridens, Pityogenes	in sorghum grain 3131
in Canada 503	quadrifasciata, Urophora	on sorghum 1937
on Viburnum opulus, damage caused by	quadrigemina, Chrysolina	cotton-field borders in, predatory
503	quadrigibbus, Tachypterellus	arthropods in 2546
on Viburnum rafinesquianum, damage caused by 503	quadriguttatus, Sthenopis quadrillum, Scymnus	Cryptoblabes adoceta in, on sorghum 1938
oviposition in 503	quadrimaculatum, Bembidion	Dacus tryoni in, on passion fruit 3511
taxonomy of, characters distinguishing	quadrimaculatus, Dromius	Dermestidae in, in sheepskin 2085
Xanthogaleruca luteola and 503	quadrinotata, Indarbela	Dichocrocis punctiferalis in, on sorghum
Pyrrharctia isabella	quadrinotata, Jauravia	1937
coldhardiness in 6100	quadripes, Xylotrechus	Diptera in, in sheepskin 2085
diapause in 6100	quadripunctata, Diapromorpha (see	Elateridae in, on sugar-cane 3880
larval development in 36	Gynandrophtalma quadripunctata)	Eriocereus spp. in, Cactoblastis spp. for
effects of temperature on 6100	quadripunctata, Gynandrophtalma	biological control of 6337
Pyrrhocoris apterus	(Diapromorpha)	E. martinii in, Hypogeococcus festerianus
control of, growth regulators for 1715 growth regulators in, delayed effects of	quadripunctata, Harmonia quadripunctata, Oenopia	for biological control of 2857 E. tortuosus in, Hypogeococcus
2151	quadripunctatus, Oenopia quadripunctatus, Dolichoderus	festerianus for biological control of
integumental injury in, reactions to 6074	quadripustulata, Scolia	2857
neuroendocrine disruption in, reactions to	quadripustulatus, Exochomus	Gonocephalum macleayi in 1919
6074	quadrisignatus, Glischrochilus	grapevine in, arthropod pests of 371
parasitised by, Ooencyrtus spp. 3370	quadrispinosus, Scolytus	Heliothis armigera in
photoperiodism in 1295, 2260	quadrituberculatus, Amnemus	on sorghum 1938
wing polymorphism in 6112	Quail (Coturnix coturnix)	on tobacco 3051
H-Pyrrole-2-carboxylic acid, 4-methyl-,	Lymantria dispar nuclear polyhedrosis	H. punctigera in, on tobacco 3051
methyl ester, Atta cephalotes recruitment	virus in, no effects from 4913	Heterobostrychus aequalis in, in imported
elicited by 1335	Metarhizium anisopliae in, effects of	wood 3676 Lepidiota frenchi in, on sugar-cane 3886
Pyrrolidine, 2-butyl-5-heptyl-	Paecilomyces fumosoroseus in, effects of	Leptopiinae in, on legumes 2482
in Solenopsis fugax poison-gland	6682	Locusta migratoria in 823, 3327, 4421,
secretion 6294	Quarantine	4422
repellent for, Lasius flavus 6294	against	Lygaeidae in 1245
Pyrus communis (see Pear)	Ceratitis capitata 5595	Mythimna spp. in, on field crops 1921
Pyrus pyrifolia	plant pests 5283	M. separata in, on sorghum 1938
Eutromula vinosa on, in Japan 700	Quadraspidiotus perniciosus 375	Nacoleia octasema in
pest control on, pesticides for 6441	Rhagoletis pomonella 1978	natural enemies of 2460
Pyruvic acid (see Propanoic acid, 2-oxo-)	of biological control agents 5937	on banana 6499
Pythium control of vector control for 2019	use of radiation in 5251	Nezara viridula in, on sorghum 1937 Noctuidae in 2671
control of, vector control for 2019	quattuordecimpunctata, Propylea Ouebec	Pantorhytes spp. in 1053
groundnut, in North Carolina 2019	agricultural entomology in 4177	Perkinsiella saccharicida in, on sugar-can
oil palm, in Ivory Coast 2937	Agrilus bilineatus in 4311	3880
Recilia mica, transmission of 2937	Agromyza frontella in	Phaseolus vulgaris in, arthropod pests of
Pythium aphanidermatum, Caloglyphus	natural enemies of 2927	3004
michaeli on, rearing of 2019	on lucerne 5050	Phytoseiidae in 1957
Pythium myriotylum, in, Caloglyphus	Anthonomus signatus in, on strawberry	Planococcus citri in, natural enemies of
michaeli, transmission of 2019	364	3510, 3511
Qatar, Rhopalocera in 6128	apple in, pest control on 958 Araneae in, in apple orchards 387	Pterohelaeus spp. in 1919 Rhopalosiphum maidis in, on sorghum
Quadraspidiotus perniciosus	biological control of weeds in 4483	1937
attractants for 5276 biology of 1346, 1973, 2955	Blissus leucopterus in, in turf 5047	soyabean in, arthropod pests of 2018
control of 1973	Carabidae in	Spodoptera exempta in, on sorghum
biological 378, 2955	bibliography 6733	1938
insecticides for 209, 375, 378, 1450,	in forests 4836	sugar-cane in, insect pests of 863
2434, 5603	Choristoneura fumiferana in 5205	weed control in 5933
non-target effects of 2434	on Abies 6609, 6630	Quelite (see Erythrina berteroana)
quarantine for 375	Cicindelini in, bibliography 6733	quercerinus, Eriophyes
timing of 375, 2434	Conotrachelus nenuphar in, on apple	Quercetin (see 4H-1-Benzopyran-4-one, 2-
descriptions of 2955	959 Craspedalenta spp. in on Salidaga 1180	(3,4-dihydroxyphenyl)-3,5,7-trihydroxy-) quercicella, Psilocorsis
EPPO data sheet on 4703	Craspedolepta spp. in, on Solidago 1180	quercifolia, Gastropacha
in Bulgaria 375	forest entomology in 6616 fruit crops in, arthropod pests of 359	quercifoliella, Phyllonorycter
in India 378 in Italy 209, 1450	Lygocoris communis in, on apple 960	Quercus
in Romania 5603	Lygus lineolaris in	Acanthosoma haemorrhoidale on, in
in USA 1346, 2434, 5276	on apple 960	Turkey 4095
	**	

Quinalphos contd. against contd.

Quercus ilicifolia, Agrilus olivaceoniger on, in New Jersey 4311 Quercus contd. Acleris tripunctana on, in West Germany 1575 Quercus macrocarpa Phytocoris brooksi on Alsophila pometaria on, in New York in Manitoba 1067 5742 in Saskatchewan 1067

Quercus mongolica, Parthenolecanium
takachihoi on, in Maritime Territory Antheraea proylei on 2846 Aphis fabae on, in India 2820 Catocala promissa on, in Spain 4092 Ceratocapsus modestus on 2573 Quercus nigra, Eriocraniella spp. on, in C. nigellus on 2573 Florida 6627 Cynips quercusfolii on, galls of, Synergus Quercus palustris spp. in 4186 Cyrtepistomus castaneus on, in Missouri 6150 Caliroa quercuscoccineae on, in Kentucky 6210 Ceratocapsus piceatus on 2573 Corticoris signatus on, in Pennsylvania Dichomeris ligulella on, in Delaware 1580 1081 Diurnea spp. on, in Japan 4640
Enaphalodes rufulus on, in Ohio 1102
Euproctis melania on, in Iraq 516
E. similis on, in West Germany 1104
Ichneumonidae associated with, in Poland Paranthrene pellucida on in Connecticut 3077 in Ohio 3077 Periclista sulfurana on, in Oklahoma 6611 quercus, Pealius
Quercus petraea
Biorhiza pallida on, in Poland 3593
insect pests of, damage caused by 3094 insect pests of in Italy 6592 in Ukraine 5183 Loranthus europaeus on, in Czechoslovakia 4649 Lindbergina aurovittata on, in Wales 191 Lymantria dispar on development of 1587 pest control on, insect growth regulators in Austria 4089
in Moldavia 3098
in New Jersey 571, 3100
monacha on, in England 2060 for 3094 Quercus prinus Acraspis hirta on, in New Jersey 526 Lymantria dispar on in Pennsylvania 2566 in West Virginia 5194 Melolontha hippocastani on, in USSR 5766 5766
Nemapogon spp. on 6026
Operophtera brumata on, in
Czechoslovakia 6628
Pealius quercus on, in Netherlands 3829
pest control on
Bacillus thuringiensis for 3098
ULV sprays for 1673
Physatocheila confinis on, in
Czechoslovakia 4648
Psilocorsis spp. on, in USA 561
Psylliodes picina on, in Europe 879
Tenthredinidae on, in Europe 5746
Thaumetopoga processionea on, in West Quercus robur Agrilus pannonicus on, in Netherlands 533 aphid-parasite communities on 562
Callirhytis spp. on, in Poland 3082
Cerambyx cerdo on, in Poland 3104
Pandemis cerasana on, in England 3071
Phyllonorycter spp. on, in England 4622, Tortrix viridana on, in England 3071 Quercus rubra Ceratocapsus sericus on 2573 insect pests of, estimating defoliation by 3086 Thaumetopoea processionea on, in West Germany 1588 Tischeria ekebladella on, in Netherlands Kermes kingii on, in Michigan 534 Lepidoptera on, in Missouri 6224 Tortrix viridana on Lymantria dispar on development of 5755 feeding by 4632 in Pennsylvania 2566 in Czechoslovakia 6628 in West Germany 1336, 1588

Tuberculatus annulatus on, in New South
Wales 3067 wood-boring insects on, fungal decay associated with 1105 Quercus sessilis (see Q. petraea) Quercus alba insect pests of, estimating defoliation by 3086 Quercus stashis
Quercus suber
Catocala promissa on 4092
Euproctis chrysorrhoea on, susceptibility
to Bacillus thuringiensis of 4653 Lepidoptera on, in Missouri 6224

Lymantria dispar on
development of 5755
feeding by 4632
in Pennsylvania 2566

Psilocorsis spp. on, in USA 561
wood-boring insects on, fungal decay
associated with 1105 Lymantria dispar on in Portugal 4652 susceptibility to Bacillus thuringiensis of 4653 Orgyia trigotephras on, in Sicily 5288 Quercus velutina Quercus borealis Corticoris signatus on, in Pennsylvania Lymantria dispar on effects of defoliation on 6225 1580 insect pests of, in Yugoslavia 5793 Quercus cerris, Andricus singulus on, in Poland 3082 in Connecticut 518 Paranthrene pellucida on, in Wisconsin Quercus coccifera wood-boring insects on, fungal decay associated with 1105 Euproctis chrysorrhoea on, susceptibility to Bacillus thuringiensis of 4653 Lymantria dispar on, susceptibility to Bacillus thuringiensis of 4653 Quercus virginians
arthropods on, sampling of 3060
Eriophyes quercerinus on, in Florida
2656 **Ouercus** coccinea mites on, in Texas 3061, 3062

Quercus wislizenii

Eriophyes ambix on, in California 2656

Konola hibernalis on, in California 2650 Caliroa quercuscoccineae on, in Kentucky 6210 Corticoris signatus on, in Pennsylvania 1580 wood-boring insects on, fungal decay associated with 1105 Quercus (wood) Dermestes lardarius in, in Manitoba Quercus fusiformis Priobium sericeum in, in Manitoba 596 quercuscoccineae, Caliroa quercusfolii, Cynips Quinalphos (O,O-diethyl O-2-quinoxalinyl arthropods on, sampling of 3060 mites on, in Texas 3061, 3062 Quercus garryana Phyllocoptes hypofrons on, in California 2656

Rhyncaphytoptus redwayensis on, in California 2656

Quercus ilex, Catocala promissa on 4092

Agrotis segetum 6709
Aleurolobus marlatti, on mulberry Amrasca biguttula, on castor 5710 A. devastans on cotton 2543 on okra 1492, 4017 Amsacta albistriga, on groundnut 6527 Aphis gossypii on cotton 6563 on eggplant 5707 on okra 1492 Assuania spp., on banana 1996 Athalia lugens 2637 Carvalhoia arecae, on Areca catechu 6446 Chilo partellus, on sorghum 5573 Cnaphalocrocis medinalis, on rice 3945 Contarinia sorghicola, on sorghum Crocidolomia binotalis, on mustard 3221 Cryptoblabes gnidiella, on Azolla 858 Dacus cucurbitae 1500 Diacrisia obliqua on sugar-beet 5684, 5686 on sweet potato 2496 Dichocrocis punctiferalis, on cardamom 283 Dicladispa armigera, on rice 5561, Dictadispa armigera, on rice 3301, 6373, 6403
Distantiella theobroma, on cacao 40
Earias spp., on okra 1492, 4017
E. insulana, on cotton 2543
E. vittella, on cotton 2543
Eriosoma lanigerum, on apple 5071
Exelastis atomosa, on Cajanus cajan 6525 6525 Heliothis armigera, on Cajanus cajan 6525 Hellula undalis, on cabbage 5650 Hydrellia philippina, on rice 5034 Maruca testulalis, on Cajanus cajan 6525 Melanagromyza obtusa, on Cajanus cajan 6525 Mythimna separata, on rice 5558
Nilaparvata lugens, on rice 3959,
3961, 3963, 5555, 5563, 5564
Nipaecoccus filamentosus, on pomegranate 4009 Nisaga simplex, on rice 2378 Nymphula responsalis, on Azolla 8 Orseolia oryzae, on rice 2379, 3947 Pectinophora gossypiella, on cotton 2543, 6564 pod borers, on Cajanus cajan 6524 Pterochloroides persicae, on peach 398 Sahlbergella singularis, on cacao 4078 Sciothrips cardamomi, on Elettaria cardamomum 6343 Scirpophaga incertulas, on rice 2379 Scirtothrips dorsalis, on Capsicum 6554 Stomopteryx subsecivella, on groundnut 6526 Taeniothrips spp., on apple 5070 Thrips tabaci on cotton 5127 on onion 5697 Tryphactothrips rutherfordi, on mulberry 378 in cabbage, residues of, effects of washing and trimming on 998 in coffee, not toxic 6579 in cotton-field soil, persistence of 2543 in eggplant, persistence of 5707 in rice, not affecting germination 3905 in rice-fields, causing outbreaks of Nilaparvata Jugens 3389 in tomato, residues of 5702 with malathion, against, Tribolium castaneum 3220 Quince (Cydonia oblonga) Adoxophyes orana on, in Yugoslavia Tryphactothrips rutherfordi, on 5068 Bucculatrix crataegi on, in USSR 5 Euzophera bigella on, in Italy 6459 Pterochloroides persicae on 5614

2656

phosphorothioate)

Achaea janata, on castor 5710 Acrocercops phaeospora, on Eugenia jambolana 2459 Q Q qu 2-

Q

qu qu qu R.

R

R

R

Ra ra Ra

R

R

uince, Japanese (see Chaenomeles	Radiation, gamma contd.	Ramicephalus hirsutus
speciosa) uinine (see Cinchonan-9-ol, 6'-methoxy-,	effects of, on contd. pests of stored products 1108	Carabus auratus, in France 6305
$(8\alpha,9R)$ -)	Plodia interpunctella 3758	C. auronitens, in France 6305
innatus, Phyllonorycter Quinolinecarboxylic acid, 4-hydroxy-	Samia cynthia 4277	ramiculata, Tridesmodes
in Carausius morosus, excretion of 3738	Tribolium castaneum 1241, 5806 Trichoplusia ni 4276	Ramin (see Gonystylus bancanus) ramosellus, Onthophagus
in Isoptera 4223	Zabrotes subfasciatus 5229	Ramosia rileyana (see Synanthedon
uinomethionate (6-methyl-1,3-dithiolo[4,5- b]quinoxalin-2-one)	for mutating sorghum to produce insect resistance 5043	rileyana)
against	uses in entomology of 63	Ramson (see Allium ursinum) Rana limnocaris
Eriophyes guerreronis, on coconut 1436	Radiation, infrared, Melanophila acuminata	preying on
Polyphagotarsonemus latus, on potato	detection of 6598 Radiation, microwave	Nephotettix nigropictus, in Karnataka 886
3018 Tetanophida an han 1505	effects of, on	Nilaparvata lugens, in Karnataka 886
Tetranychidae, on bean 1505 in Encarsia formosa, toxicity of 676	Pieris brassicae 5315	rancidella, Athrips Range management, role of entomology in
in Entomophthora obscura, toxicity of	Tenebrio molitor 5315, 5800 Radiation, ultraviolet	3977
4136 inquefasciatus, Culex	against	ranunculi, Phytomyza Ranunculus, Heliococcus slavonicus on, in
inquemaculata, Manduca	Plodia interpunctella 3647	Poland 2271
ninquenychus, Tetranychus (see T. gloveri) ninquepunctata, Gonioctena	Pyemotes tritici 3647 Tyrophagus putrescentiae 3647	Raoiella indica in India 4295
20458 (see Oxirane, 3-[5-(4-	effects of, on	on coconut, in Madhya Pradesh 4295
ethylphenoxy)-3-methyl-3-pentenyl]-2,2-	aqueous formulations of insecticides 4393	predators of 2821
dimethyl-, (E)-) 28627 (see 4-Oxa-2-thia-3-phospha-1-	Autographa californica NPV 610	rapae, Artogeia (Pieris) rapae, Diaeretiella
stannahexane, 1,1,1-tricyclohexyl-5-	Cydia pomonella granulosis virus 1628	rapae, Pieris (see Artogeia rapae)
methyl-3-(1-methylethoxy)-, 3-sulfide) abbit, Nomuraea rileyi in, no effects from	cypermethrin 4395 fenvalerate 4395	rapae, Trybliographa rapax, Hemiberlesia
1620	Neoaplectana carpocapsae 3695	Rape (Brassica napus var. oleifera)
abdophaga on <i>Salix,</i> galls of 3599	triazophos 4395 insect communication in, review 3765	arthropod pests of in Finland 1903
taxonomy of, larval spatula as character	radiatus, Selenops	in West Germany 2162
for 3599 abdophaga clavifex, taxonomy of,	radiatus, Tetrastichus	Athalia spp. on, in France 1831
Rabdophaga pulvini as synonym of	Radioimmunoassay, for stereoselective residue analysis 5257	A. rosae on, in Switzerland 5652 Brevicoryne brassicae on
3599	Radioprotectives	damage caused by 5093, 6505
abdophaga pulvini, taxonomy of, synonym of R. clavifex 3599	for Baculovirus heliothis 6518 for Choristoneura fumiferana NPV 6620	in Austria 1756 Ceutorhynchus spp. on, in Austria 1756
accoon (see Procyon lotor)	for Neodiprion lecontei NPV 6619	C. assimilis on, effects of plant growth
chelae, Bodenheimera achiplusia ou	for <i>Plodia interpunctella</i> sex pheromone 3647	regulators on 3515 C. napi on
nuclear polyhedrosis virus in	in Bombyx mori pupae 5493	damage caused by 2994, 2995
antigens of 3692 specificity of 614	Radish (Raphanus sativus) aldrin in, uptake from soil of 5680	in Poland 2993, 3517 in Switzerland 5652
adar	Artogeia spp. on, in Japan 1495	C. pallidactylus on
for detecting airborne insects 1280, 1281	Athalia lugens on	damage caused by 2470
for studying insect flight 4868 for studying migration in Acrididae 5912	development of 2476 in Uttar Pradesh 1675	in Poland 3517 C. pleurostigma on
for studying migration in moths 5745,	chlorfenvinphos in	in Poland 2469
5913 for surveying insects 634	residues of 421, 5097 toxicity of 421	invertebrates in galls of 2469 Dasineura brassicae on
use in entomology of 1277, 1279, 1282,	chlorpyrifos in, residues of 5097	effects of plant growth regulators on
1283, 1285, 1286 use in pest management of 1278, 1284	Delia brassicae on in England 421, 5097	3515 in Poland 2996, 2997, 5095
demacheri, Amblyseius	in Finland 1490	Hadena atlantica on, in Manitoba 996
adiation use in entomology of 4278, 5445	oviposition by 2006, 6151 D. floralis on, in Finland 1490	insect pests of damage caused by 4573
use in plant quarantine of 5251	glucosinolates in 282	distribution pattern of 4573
adiation, beta	insecticides in, toxicity of 5097 isofenphos in, residues of 5097	in England 1757 in Poland 1866, 3702
against Sitophilus spp., in maize grain 3648	monocrotophos in, residues of 5268	lindane in, residues of 6723
Tribolium castaneum, in flour 3648	Myzus persicae on	Lipaphis erysimi on, in Delhi 1999, 2468 Mamestra configurata on
adiation, gamma against	development of 396 in Japan 4733	forecasting infestations of 4574
Callosobruchus maculatus 207	parathion-methyl in, residues of 5268	in Manitoba 996, 4575 Melanoplus bivittatus on, varietal
Epichoristodes acerbella 5732 Lasioderma serricorne 6652	Phyllotreta armoraciae on, not feeding 282	preferences of 2466
pests of stored products 3641	P. cruciferae on, rearing of 4019	M. sanguinipes on, varietal preferences of
Prostephanus truncatus 3124 Rhagoletis cerasi, in cherries 1119	P. undulata on, feeding by 4018 Raghuva albipunctella	2466 Meligethes aeneus on
Sternochetus mangiferae, in mangoes	in Senegal 316	in Austria 1756
4011 Tribolium castaneum 1241, 3124	on millet, in Senegal 316 taxonomy of, misidentified as <i>Masalia</i> sp.,	in Poland 3516 in West Germany 3515
effects of, on	in Senegal 316	Myzus persicae on, insecticide
Anthonomy grandia 1049 1242	Ragweed, perennial (see Ambrosia psilostachya)	susceptibility of 3796 pest control on 1866
Anthonomus grandis 1049, 1242, 2544, 2545, 2723, 3551, 3757	Rainfall	biological 5952
Callosobruchus maculatus 770	effects of, on	book 2621 dialifos for 5653
Ceratitis capitata 3286, 4786, 6480 Corcyra cephalonica 2724	Delia coarctata 2879 Phyllophaga crinata 2234	etrimfos for 5652
Cryptophlebia leucotreta 5620, 6094	Raisins and sultanas	insecticides for 2462
Cydia pomonella 967, 2231, 3287 Dacus cucurbitae 2725	Ephestia figulilella in, in Victoria 3141 Oryzaephilus spp. in, in Victoria 3141	Phyllotreta spp. on in France 3813
D. oleae 987	pest control in	in Manitoba 4021
Diacrisia obliqua 4075 Ephestia cautella 1109	insect viruses for 1118 pyrethrins for 3140, 3141	P. cruciferae on, rearing of 4019
E. elutella 2230	resistant packing containers for 2606	Psylliodes chrysocephalus on
Heliothis virescens 64 Locusta migratoria 4964	Plodia interpunctella in in USSR 3128	forecasting infestations of 5651 in England 2000
Pectinophora gossypiella 75, 493,	in Victoria 3141	in France 3813
3043, 3550	ramamurthii, Proreus	P. punctulatus on, in Manitoba 4021

Rape contd.	Rearing techniques contd. Aspidiotus nerii 4008	Rearing techniques contd.
Trigonotylus coelestialium on 3305	Ataxia hubbardi 2036	Sitotroga cerealella 1226 Spodoptera littoralis 5717
Xestia c-nigrum on, in Manitoba 996	Attagenus fasciatus 2158	Telenomus alsophilae 6144
Rape fields	Bactra furfurana 3871	Tetranychus urticae 628, 807
Araneae in, in Switzerland 255	B. lancealana 3871	Trialeurodes vaporariorum 628
parasitic insects in, effects of insecticides on 3516	Beauveria bassiana 1088, 1660, 3024, 5861	Trichogramma 1226, 2620 T. euproctidis 5464
predatory insects in, effects of insecticides	Blepharipa pratensis 2777	T. evanescens 5464
on 2462, 3516	Bombyx mori 808, 5493	T. perkinsi 5517
Rape-leaf powder, diet component for, Plutella xylostella 809	Brachymeria intermedia 5483 Ceratitis capitata 177, 806, 1318, 3747	Trichoplusia ni 5427 Typhlodromus occidentalis 6460
Rape (stored seeds), mites in, extracting of	Chilo partellus 2894, 6427	Verticillium lecanii 5236
5220	C. suppressalis 180	quality control in 4810, 4811
Raphanus sativus (see Radish)	Chrysocharis punctifacies 2928	reburrus, Enoclerus
Raphidia ophiopsis biology of 5767	Chrysodeixis chalcites 4823 Chrysopa 5123	Recilia coronifera in UK 2918
in UŠŠR 5767	C. carnea 169, 4455	on Holcus mollis, resource utilisation by
prey of 5767	Cnaphalocrocis medinalis 897, 3387	2918 Recilia dorsalis
preying on Aradus cinnamomeus, in USSR 5767	Coccinella septempunctata 246 Colastes braconius 2928	control of, insecticides for 2651
Dendroctonus micans, in USSR 5767	Coleophora laricella 529, 530	in China 918
Raphidopalpa foveicollis (see Aulacophora	Conoderus exsul 4314	in Malaysia 2651
foveicollis) rapi, Diadegma	Cryphalus populi 2589 Cydia pomonella 967, 2775	in Taiwan 6376 on rice
rapidum, Bembidion	Dacnusa dryas 2928	damage caused by 6376
rapidus, Adelphocoris	Dacus cucurbitae 2282	in China 918
Raptiformica, enzyme gene variability in 4968	D. dorsalis 1851 D. oleae 206	in Sarawak 2651 parasites of, in Sarawak 2651
rara, Trichogrammatoidea	Dendroctonus frontalis 2283	rice ragged stunt virus in, not transmitted
rarus, Rubroscirus	Dermestidae 178	3406, 6390
Raspberry	Diabrotica undecimpunctata 6235 Diatraea grandiosella 2290	Recilia mica coconut blast, causal agent in,
arthropod pests of in Quebec 359	Dichocrocis punctiferalis 4877	transmission of 6445
in Scotland 4175	Diglyphus isaea 2928	control of
Byturus tomentosus on, damage caused by	Discestra trifolii 2291	cultural 2937 insecticides for 2937
1442, 5055 Macrosiphum euphorbiae on, in New	Drosophila melanogaster 6702 Dynastinae 5439	in Ivory Coast 2937, 6445
Zealand 367	Encarsia formosa 628, 5925	oil-palm blast, causal agent in,
Oecanthus nigricornis on, in Ontario 938	Epichoristodes acerbella 501	transmission of 6445
Pamphilius sitkensis on, in Utah 939 pest control on 2433	Eurygaster integriceps 3746 Forcipomyia 1853	on coconut, in Ivory Coast 6445 on oil palm, in Ivory Coast 2937, 6445
Phyllocoptes gracilis on, varietal	Genyodonta flavomaculata 397	on Paspalum, in Ivory Coast 2937
preferences of 3455	Geocoris pallens 5130	on Pennisetum, in Ivory Coast 2937
Resseliella theobaldi on damage caused by 1443	Glischrochilus quadrisignatus 3792 Heliothis armigera 810, 4330	Pythium spp. in, transmission of 2937 Rhizoctonia spp. in, transmission of
in Scotland 940	H. assulta 4878	2937
Tetranychus urticae on, varietal	H. virescens 179	recticornis, Megaloceroea
preferences of 6451 Raspberry (black) necrosis virus	H. zea 179, 5428 Hercinothrips femoralis 1320	recurvalis, Hymenia Recurvaria, on Pinus, in Thailand 5175
in	Homona coffearia 1225	redemanni, Odontotermes
Macrosiphum euphorbiae, transmission	Ips subelongatus 1315	Reductase, cytochrome c (reduced
of 367 raspberry, in New Zealand 367	Lepidopterous pests of apple 1850 Leptinotarsa decemlineata 3024	nicotinamide adenine dinucleotide phosphate)
Raspberry fields, Phoridae in, in Scotland	Leptothrips mali 4925	in Diabrotica undecimpunctata 6217
4997	Lixophaga diatraeae 293, 1316	in Diabrotica virgifera 6217
Raspberry leaf mottle virus in, raspberry, in New Zealand 367	Lyctus brunneus 3321 Lymantria dispar 4886, 5795	Reduviidae in Galápagos Islands 6127
vectors of 367	Mamestra brassicae 4878, 6143	in cotton-field borders, in Queensland
Raspberry leaf spot virus	Mecas inornata 2036	2546
in, raspberry, in New Zealand 367 vectors of 367	Microplitis rufiventris 5426 Monomorium pharaonis 125	parasitised by, Gryon leptocorisae 5288 Reduviolus roseipennis (see Nabis
Raspberry vein chlorosis virus	Mythimna separata 4878, 6143	roseipennis)
in, raspberry, in New Zealand 367 vectors of 367	Myzus persicae 4319	reduviophagus, Gryon (see G. leptocorisae)
Rastrococcus mangiferae	Neoaplectana carpocapsae 618, 4876 Nephotettix virescens 6384	redwayensis, Rhyncaphytoptus Reed (see Phragmites australis)
in Bangladesh 4447	Nilaparvata lugens 175	Reesa vespulae
on mango, in Bangladesh 4447	Oecanthus nigricornis 938	in Finland 3785
parasitised by, Acridencyrtus ambiguous, in Bangladesh 4447	Oraesia emarginata 1321 Orgyia pseudotsugata 517	in New Zealand 4654 in insect collections, in New Zealand
Rat	Orius minutus 3473	4654
insecticides in, toxicity of 3180	Orseolia oryzae 3936	Reflective mulches
methomyl in, toxicity of 3215 Neoaplectana carpocapsae in, no effects	Ostrinia nubilalis 812, 813, 4878 Pachnoda sinuata 397	against aphids, on potato 1530
from 2610	Parnara guttata 1404	Aphis gossypii, on squash 1503
Nomuraea rileyi in, no effects from 1620	Patasson nitens 6588	reflexella, Psilocorsis
pyrethroids in effects of 1158	Persectania ewingii 811 Phyllotreta cruciferae 4019	reflexus, Sosylus regalis, Messor
toxicity of 654	Phytoseiulus persimilis 628, 5925	regina, Phormia
rattlei, Perkinsiella	Pimpla turionellae 832, 4933	rehi, Brevennia (Heterococcus)
RE-27644, against, Costelytra zealandica, in pastures 5877	Plutella xylostella 809 Porphyrophora hamelii 2847	rehi, Heterococcus (see Brevennia rehi) Reldan (see Chlorpyrifos-methyl)
Rearing techniques	Prospaltella lahorensis 979	religiosa, Mantis
Acalymma vittatum 6235	Psacothea hilaris 3322	Remphan (see Rhaphipodus)
Acanthops falcata 2778 Adoxophyes orana 4878	Pseudococcus calceolariae 1162 Pterandrus rosa 177	Remphan hopei (see Rhaphipodus hopei) renardii, Zelus
Agrotis segetum 4317, 6097	Quadraspidiotus perniciosus 2773	renigera, Lacinipolia '
Anastrepha ludens 1666	Rhynchophorus ferrugineus 361	Reoviridae
Anthonomus grandis 496, 1847, 2285, 2286, 2287, 2288, 2289, 4316	Saissetia oleae 3506	in Adoxophyes orana, activating latent
Argyope aemula 2778	Schistocerca gregaria 2319 Sitona humeralis 4324	nuclear polyhedrosis virus 5849
A. argentata 2778	Sitophilus granarius 3115	Dendrolimus spectabilis
Aschersonia placenta 628	S. oryzae 3115, 3269	characterization of 5145

abject index
eoviridae contd.
in contd.
Dendrolimus spectabilis contd. in Shangdong Province 5145
Hyphantria cunea
pathogenicity of 4141
properties of 6218
panda, Coccinella panda, Pycna
epellents
for Neoaplectana carpocapsae, insect fecal
constituents as 1619
formulations of, technical specifications for 3217
sales of, in Finland 6701
substances tested as: plant oils 6173
synonyms of 2128 eports (1974-77), Institute of Plant
Protection, Israel 2164 eports (1974-78), British overseas aid.
eports (1974-78), British overseas aid.
Agricultural research (crop and soil sciences) 6002
eports (1976-78)
Agriculture Canada Research Branch
5999
Agriculture Canada Research Station, Vancouver 4178
Biological and Chemical Research
Institute, New South Wales 2161
eports (1977-78) Federal Research Institute for Dairy
Science, Switzerland 4709
Northeastern Forest Experiment Station,
USA 2064 eports (1977-79)
All India Co-ordinated Research Project
on Biological Control of Crop Pests
and Weeds 6001
Studies on the chemical control of major insect pests of soybean, groundnut and
rice at Jabalpur, Madhya Pradesh
2487
esbuthrin (see Resmethrin) eserpine, in Galleria mellonella, effects on
larval-pupal moult of 2626
sinosae, Matsucoccus
esins, in Neotermes bosei diet, digestion of 6329
esmethrin ([5-(phenylmethyl)-3-
furanyl]methyl 2,2-dimethyl-3-(2-methyl-
1-propenyl)cyclopropanecarboxylate)
against, Trialeurodes vaporariorum, on ornamental plants 5733
sunlight stability of 5261
sunlight stability of 5261 (1R-trans)- (see Bioresmethrin)
sponsalis, Nymphula
esseliella, on Pinus taeda, attack periods of 5776
esseliella oculiperda
biology of 5066 control of 5066
in UK 5066
on apple, damage caused by 5066
on apple, damage caused by 5066 on pear, damage caused by 5066
esseliella odai in Japan 5737
parasitised by, Synopeas zaitama, in
Kyushu 5737
esseliella theobaldi control of, cultural 940
control of, cultural 940 enzymes in 1443 in UK 940
in UK 940
on raspberry
damage caused by 1443 in Scotland 940
estaurants, Monomorium pharaonis in, in
Poland 827
tentus, Conotrachelus
ticulana, Adoxophyes (see A. orana) ticulana, Capua (see Adoxophyes orana)
ticularis, Prionoplus
ticulata, Ascogaster
ticulata, Eurosta eticulitermes flavipes
control of
growth regulators for 1714
insecticides for 4467
hind-gut in, bacteria in 4464
hind-gut in, bacteria in 4464 hydroprene in, effects of 1714 methoprene in, effects of 1714
hind-gut in, bacteria in 4464 hydroprene in, effects of 1714 methoprene in, effects of 1714 mirex susceptibility in, variation in 4467
hind-gut in, bacteria in 4464 hydroprene in, effects of 1714 methoprene in, effects of 1714

es b c in o o es in P

```
Reticulitermes flavines contd.
                                                                                      Reviews contd.
    uric acid in 4223
                                                                                          insect neural development 2190
     wood extracts in, toxicity of 2632
                                                                                          insect parasite development 5442
 Reticulitermes lucifugus
                                                                                          insect population dynamics as affected by
    biology of 1897
in USSR 118, 1897
                                                                                                resistant food-plants 5961
                                                                                          insect sequestration of plant products
     in structural wood, in USSR 118
                                                                                                5443
     legs of, glands in 716
                                                                                          insect spermatogenesis 5440 insect surveys 634
Reticulitermes lucifugus santonensis (see R.
                                                                                         insect surveys 634
insect tissue culture 5433
insect vitellogenins 2190
insect vitellogenins and vitellogenesis
insecticide hazards to honeybees 678
insecticides for plant protection 5436
integrated control of arthropods 3172
       santonensis)
 Reticulitermes santonensis, insect growth
      regulators in, inducing soldier caste formation 5001
Reticulitermes speratus
biology of 1897
in USSR 118, 1897
                                                                                          integrated control of stored-product
     menthol in, toxicity of enantiomers of
                                                                                                insects 3630
          6331
                                                                                           invertebrate immunity 5231
Reticulitermes virginicus
                                                                                          isolation of insect neuropeptides 5314
     control of
                                                                                          lipid digestion and absorption in insects
control of
growth regulators for 1714
insecticides for, evaluating of
hydroprene in, effects of 1714
methoprene in, effects of 1714
trail pheromone in, followed by
staphylinid termitophiles 5488
uric acid in 4223
Retinal pigments
in Bombyx mori compound eyes,
photoadaptive properties of 1229
in Pieridae 2703
Réunion
                                                                                                3742
                                                                                          mycoplasma pathogenicity for arthropod
vectors 5239

Nilaparvata lugens ecology 2384

N. lugens natural enemies 2401
                                                                                          ouabain sensitivity of insect epithelial tissues 745
                                                                                          palm rhinoceros beetles 5439
                                                                                          pest management and ecological theory
                                                                                                5438
                                                                                          pest management in forests 5444 pesticide resistance in pests of stored
 Réunion
     agricultural entomology in 694
                                                                                                products 3637
    Diaphorina citri in, on Citrus 1467, 5077 sugar-cane in, pests of 693
                                                                                               sts of stored products 2084
                                                                                          pheromonal communication in insects
     Trioza erytreae in, on Citrus 1467
                                                                                                1722
                                                                                          pheromone receptor specificity in moths
 Reviews
    ant pheromones 245
antifeedants for insects 689
                                                                                                1726
                                                                                         Pheromone recognition in moths 1725

Pieris brassicae granulosis virus 3159

production and perception of Lepidoptera
pheromone blends 1729

pyrethroid insecticides 3706

pyrethroid metabolism and environmental
degradation 5260

radar for studying insect flight 4868
     aphid population biology 4274
    aphid population biology 42/4
aphid transmission of plant viruses 5437
Araneae in crop fields 5476
arthropod aestivation 5430
atmospheric water absorption in
arthropods 2190
Azadirachta indica as a source of insect
                                                                                          radar for studying insect flight 4868 radiation sterilisation of Pectinophora
          antifeedants and growth regulators
                                                                                          gossypiella 493
Scolytid olfaction 3580
          637
    Bacillus popilliae 3682
biological control 5923
                                                                                          sericulture 5432
     biological control of Eichhornia crassipes
                                                                                          sex pheromones for pest control in stored
                                                                                                products 3629
     biological control of parasitic weeds
                                                                                           small isometric viruses of invertebrates
                                                                                                3160
                                                                                          systems analysis applied to plant
protection 2114
termite defensive secretions 173
    biological control of plants 5924
biological control of thistles 550
     chiroptical inducibility and biological
                                                                                          Vespid social behaviour 5441
water balance in insects and mites 3283
     activity of insect pheromones 1723 communication in the ultraviolet 3765
                                                                                          whitefly-transmitted viruses of plants
     Corcyra cephalonica biology and control
                                                                                                3148
    Dutch elm disease 3087
ecological basis for pest management
5247
                                                                                      RH-218 (see Trifenofos)
                                                                                      Rhabdionvirus oryctes, against, Scapanes australis, on coconut 3698
                                                                                      australis, on coconut 3698
Rhabdoscelus obscurus, on sugar-cane, varietal preferences of 2355
Rhacodinella apicata
biology of 3342
descriptions of 3342
in Poland 3342
    enantiomeric composition and biological
activity of insect behaviour-modifying
chemicals 1727
    environmental health criteria for DDT
          2643
    evolution of Microlepidoptera food
preferences 5434
                                                                                          parasitising, Dasychira pudibunda, in
Poland 3342
    preferences 3434
forest pest management using behaviour-
modifying chemicals 1736
genetic control of insects 4797, 4798
Heteroptera scent glands 2190
Homopteran symbioses 5435
hormonal regulation of insect development
and metabolism 5339
hormonal regulation of silk production in
                                                                                      Rhaconotus schoenobivorus
in India 3910
                                                                                      parasitising, Scirpophaga incertulas, in
West Bengal 3910
Rhagium bifasciatum
in East Germany 4639
on Betula, in East Germany 4639
     hormonal regulation of silk production in
                                                                                      Rhagium inquisitor
biology of 3600
in France 3600
in USA 5193
    Bombyx mori 6336
humoral immunity in insects 3157
     Hymenoptera pheromone complexity 1732, 1733
     insect control using inherited sterility 3173
                                                                                          on Pinus echinata, in Oklahoma
                                                                                          on Pinus pinaster, in France 3600
                                                                                       Rhagoletis
    insect cuticle hardening and coloration
                                                                                          enzymes in
          5334
    insect cuticular chemosensilla · 5431
insect cuticular hydrocarbons · 6064
insect heartbeat regulation · 4244
insect multing physiology 2190
insect muscle fibres 2190
                                                                                          key
                                                                                                   5597
                                                                                       Rhagoletis alternata
                                                                                          biology of 5013
in Norway 5013
                                                                                          on Rosa canina, in Norway
     insect muscle pharmacology 4774
                                                                                          on Rosa rugosa, in Norway
```

```
Rhodesia (see Zimbabwe)
  Rhagoletis alternata contd.
                                                                                                                                                  Rheumaptera hastata contd.
        parasitised by, Phygadeuon wiesmanni, in Norway 5013
                                                                                                                                                        on Betula, in circumpolar zone 5150
                                                                                                                                                                                                                                                                                                   rhodesianus, Callosobruchus
                  Norway
                                                                                                                                                  on Betula papyrifera, in Alaska 544 rhinoceros, Oryctes
                                                                                                                                                                                                                                                                                                   Rhodnius prolixus, ovarian production in, regulation of 3737
  Rhagoletis cerasi
                                                                                                                                                  Rhinocoris iracundus, parasitised by,
Ooencyrtus spp. 3370
                                                                                                                                                Rhinocoris iracundus, parasitised by,
Ocencyrtus spp. 3370
Rhinocyllus conicus
diapause in, effects of photoperiod and
temperature on mortality during 101
on Carduus acanthoides, and biological
control using, in Quebec 4483
on Carduus nutans
and biological control using
in Montana 4479
in New Zealand 3872
in Ontario 5501
in Quebec 4483
effects of herbicides on 853
on thistle, and biological control using
        control of
                                                                                                                                                                                                                                                                                                   Rhododendron
               genetic 4797
                                                                                                                                                                                                                                                                                                          Illinoia lambersi on, in New Hampshire
               γ-irradiation for 11 repellents for 5610
                                                                                                                                                                                                                                                                                                                   1061
                                                                  1119
                                                                                                                                                                                                                                                                                                          Otiorhynchus sulcatus on, in Netherlands
        diapause in 1253
      Glight activity in 2446 in Austria 1756 in Italy 2446 in Poland 3982 in Spain 817 in Switzerland 5610 in Turkey 1311 on cherry
                                                                                                                                                                                                                                                                                                   rhomboidaria, Boarmia (see Peribatodes
                                                                                                                                                                                                                                                                                                            rhomboidaria)
                                                                                                                                                                                                                                                                                                   rhomboidaria, Peribatodes (Boarmia)
                                                                                                                                                                                                                                                                                                   Rhopaea verreauxi
                                                                                                                                                                                                                                                                                                         control of, biological 5951
in Australia 5951
                                                                                                                                                                                                                                                                                                   Rhopalicus, taxonomy of, behavioural characters for 3845
        on cherry
             damage caused by 3982
in Austria 1756
in Sicily 2446
in Switzerland 5610
                                                                                                                                                                                                                                                                                                   Rhopalicus brevicornis
                                                                                                                                                        on thistle, and biological control using
                                                                                                                                                                                                                                                                                                         biology of 5397
in USSR 5397
                                                                                                                                                                   5505
                                                                                                                                                 Rhinophoridae, in Crimea 3304
Rhinosimus planirostris
in Netherlands 532
on Ulmus, in Netherlands 53
                                                                                                                                                                                                                                                                                                          parasitising, Scolytidae, in Lithuania
       oviposition-deterring pheromone in 1474, 5610
                                                                                                                                                                                                                                                                                                                  5397
                                                                                                                                                                                                                                                                                                   Rhopalicus pulchripennis
in USA 2594
       receptors for 4892 oviposition in
                                                                                                                                                   Rhinotermitidae, in Nigeria 5486
                                                                                                                                                                                                                                                                                                          on host food-plants, distribution pattern of
               effects of colour on 6474
                                                                                                                                                  Rhinyptia laeviceps
       effects of volatiles on 6474
traps for 2446
complex of, electrophoresis for
differentiating taxa in 4809
                                                                                                                                                        control of, insecticides for in India 5263
                                                                                                                                                                                                                                                                                                                   2594
                                                                                                                                                                                                                                                                                                   Rhopalidae, in Galápagos Islands 6127
Rhopalidia, nests of, distinguishing Vespula
germanica nests and 4977
                                                                                                                                                        insecticide susceptibility in, sex differences in 5263
                                                                                                                                                                                                                                                                                                   germanica nests and 4977
Rhopalocera
body temperature in, measuring of 2727
in Himachal Pradesh 2757
in Qatar 6128
in Saudi Arabia 1844
monitoring abundance of 1856
reproductive isolating mechanisms in 3765
  Rhagoletis cingulata
in USA 377
                                                                                                                                                         on Pennisetum americanum, in Rajasthan 5263
 on cherry, in New York 377
traps for 377
Rhagoletis completa, oviposition in 3463
                                                                                                                                                  Rhipiphorothrips cruentatus, in China 4867
Rhizobium meliloti
                                                                                                                                                 bendiocarb in, not toxic permethrin in, not toxic 5576 Phizotbium trifolii bendiocarb in, not toxic permethrin in, not toxic 5576 Phizotexical State of the state
 Rhagoletis fausta
in USA 377
        on cherry, in New York 377 traps for 377
                                                                                                                                                                                                                                                                                                                   3765
                                                                                                                                                                                                                                                                                                 3765
Rhopalomyia californica
in USA 833
on Baccharis pilularis, in California 833
parasites of, interactions among 833
Rhopalophion, taxonomy of 3844
rhopalosiphi, Aphidius
Rhopalosiphoninus staphyleae
beet mild yellowing virus in, transmission
of 5685
beet yellows virus in transmission of
Rhagoletis indifferens
control of, timing of 1984
development in, effects of temperature on
1984
                                                                                                                                                  Rhizoctonia
                                                                                                                                                  oil palm, in Ivory Coast 2937

Recilia mica, transmission of 2937
insecticidal activity of extracts of 523

Rhizoecus, in Florida 3057
        in USA 1984
        on cherry, forecasting infestations of 1984
                                                                                                                                                  Rhizoecus cacticans
control of 5134
        parasitised by
                                                                                                                                                        descriptions of 5134
distribution of 5134
food-plants of 5134
 Opius spp., in Oregon
Psilus spp., in Oregon
Rhagoletis pomonella
                                                                                                                                                                                                                                                                                                         beet yellows virus in, transmission of 5685
                                                                                                                                                in Spain 5134
in Spain 5134
on cacti, in Spain 5134
Rhizoecus hibisci
food-plants of 1060
in Japan 1060
in USA 1060
on Crunte the
                                                                                                                                                                                                                                                                                                         in UK 5685
        attractants for, in apples
biology of 1978
                                                                                                                                                                                                                                                                                                         on sugar-beet, in UK 5685
                                                                                     4896
                                                                                                                                                                                                                                                                                                   Rhopalosiphum
barley yellow dwarf virus in, transmission
of 3440
        control of
      insecticides for 389
quarantine for 1978
timing of 389
emergence in 389
effects of soil moisture on 962
predicting of 382
in Canada 1978
in USA 377, 382, 389, 1978, 2441
insecticide resistance in, detecting and
              insecticides for
                                                                                                                                                                                                                                                                                                         on cassava, in Kerala 6542
                                                                                                                                                in USA 1060
on Cryptanthus, in Florida 1060
Rhizoecus nemoralis
control of, insecticides for 1055
in El Salvador 1055
on coffee, assessing infestations of
Rhizoecus palestineae
descriptions of 3057
food-plants of 3057
in Israel 3057
in USA 3057
on Narcisus in Florida 3057
                                                                                                                                                                                                                                                                                                 on wheat
development of infestation with
distribution pattern of 5525

**Rhopalosiphum insertum**
biology of 5604
control of 5604
in UK 5604
on apple, in UK 5604

**Rhopalosiphum maidis**
biology of 1937
control of, insecticides for 3560
flight activity in 6360
                                                                                                                                                                                                                                                                                                         on wheat
                                                                                                                                                                                                                                                                1055
                  measuring of 3712
       measuring of 3712
on apple
assessing infestations of 389
in Massachusetts 2441
in New York 377, 382
oviposition-deterring pheromone in,
receptors for 4892
                                                                                                                                                                                                                                                                                                         flight activity in 6360
hemocytes in, effects of insecticides on
2696
                                                                                                                                                        on Narcissus, in Florida 3057
                                                                                                                                                 on Narcissus, in Florida 3037
taxonomy of, lectotype for 3057
rhizolineata, Patna
rhizophagus, Amitermes
Rhizophagus depressus
in Poland 2074
preying on, Tomicus piniperda, in Poland
receptors for 4892
pupal development in, effects of temperature on 382
seasonal abundance of 389 traps for 377, 389, 2441
wings of, measuring of 805 complex of, key 5597
Rhaphidophoridae
in New Zealand, bibliography 4718
preying on, tree-trunk pests, in USSR
580
                                                                                                                                                                                                                                                                                                          hyperparasites of, in Texas 2917 illustrations of 1937
                                                                                                                                                                                                                                                                                                        nyperparasites of, in Texas
illustrations of 1937
in Australia 1937
in Libya 2368
in Mexico 923
in South Africa 6360
in Togo 3029
in USA 2917, 3560, 6188
in USSR 3376
on grain crops, in Kazakhsi
                                                                                                                                                                   2074
                                                                                                                                                  Rhizopoda, Malameba scolyti 4645
Rhizopus, in, maize grain, in Nigeria
Rhizopus nigricans (see R. stolonifer)
                                                                                                                                                                                                                                                                   3650
                                                                                                                                                                                                                                                                                                       in USSR 3376
on grain crops, in Kazakhstan 3376
on maize, in Libya 2368
on range grasses, survival and
reproduction of 2358
on sorghum
damage caused by 923, 1937
in Texas 2917
resistance to 5570
on soyabean, in Illinois 6188
on tobacco, in North Carolina 3560
on yam, in Togo 3029
parasites of, in Kazakhstan 3376
parasitised by

Aphelinus nigritus, in Texas 2917
                                                                                                                                                  Rhizopus oryzae
 Rhaphigaster nebulosa, in Hungary 3314
Rhaphipodus, on Erythrina indica, in Kerala
284
                                                                                                                                                               Homoeosoma electellum, transmission
                                                                                                                                                                        of 1540
                                                                                                                                                 sunflower, associated with insect
damage 1540
Rhizopus stolonifer
 Rhaphipodus hopei
in India 284
        on Dipterocarpus turbinatus, in India
                                                                                                                                                 Nezara viridula, transmission of 4342 orange, in Egypt 4342

Rhizotrogus aequinoctialis
biology of 2791
control of 2791
in USSR 2791, 5577
 rhenanus, Anthoseius
Rheum palmatum, Gastrophysa viridula on,
in Czechoslovakia 5016
Rheum rhaponticum (see Rhubarb)
Rheumaptera hastata
biology of 544
in USA (Alaska) 544
                                                                                                                                                 on grasses, in Georgia (USSR) 5577
Rhizotrogus euphytus, in Tunisia 4852
                                                                                                                                                                                                                                                                                                                Aphelinus nigritus, in Texas 2917
                                                                                                                                                                                                                                                                                                                Lysiphlebus testaceipes, in Texas 291'
```

Rhopalosiphum maidis contd.

Rhyssella approximator, in Poland 3602

soyabean mosaic virus in, transmission of 6188	biology of 5157 in UK 5157	Rhyssemus germanus, in Tunisia 4852 Rhytidoponera, sexual calling in 4432
yam mosaic virus in, transmission of 3028	on Pinus contorta, in Scotland 5157 parasites of, in Scotland 5157	Rhytidoponera metallica, sexual calling in 4432
yam viruses in, transmission of 3029	Rhyacionia frustrana	Rhyzopertha dominica
nopalosiphum padi barley yellow dwarf virus in, transmission	emergence in 1567	control of
of 5027, 6154	hyperparasites of, in Georgia (USA) 1567	fumigants for 584, 3636, 4666, 5225, 6640
biology of 298, 1920	in USA 1567	growth regulators for 590, 2092, 4713
control of biological 5998	on Pinus taeda, in Georgia (USA) 1567 parasites of	heating of grain for 3642 humidity control for 3113
insecticides for 2878	effects of insecticides on 1567	inert dusts for 2598
threshold for 298	in Georgia (USA) 1567 Rhyacionia subtropica	insecticides for 1112, 3130, 3635, 3655, 4666, 6654
Entomophthora spp. in, not affected by fungicides 5524	attractants for 4618	protective atmospheres for 1116, 209
flight activity in 5379, 6360	in USA 4618 sex pheromone of, identity of 4618	3646 development in, effects of damaged grain
humidity responses in 1289, 5379 hyperparasites of, in England 1388, 5519	Rhyacionia zozana	on 3670
in Brazil 5527	attractants for 536 in USA 536	in Australia 1116, 2096, 4666, 5225 in Bulgaria 3130
in Chile 5998	rhyacioniae, Haltichella	in India 4116, 6640
in East Germany 2876, 2877, 5531 in Finland 1903	Rhyncaphytoptidae, in Kirgizia 1448 Rhyncaphytoptus redwayensis	in Malaysia 3143 in Nigeria 3650, 4663
in Netherlands 298	sp. nov., description of 2656	in cassava chips, in West Malaysia 3143
in Poland 2875, 3373 in South Africa 6360	in USA 2656 on Quercus garryana, in California 2656	in <i>Cicer arietinum</i> seeds, in Haryana 4116
in Sweden 5521	Rhynchacis, taxonomy of, synonym of	in maize grain
in UK 1388, 5384, 5519, 5575 in USA 6188	Kleidotoma 4736 Rhynchaenus alni	damage caused by 4663 in Nigeria 3650
in USSR 1920	in Netherlands 532	in packaging materials, damage caused by
in West Germany 5524	on Ulmus, in Netherlands 532	4678
light responses in 5379 low-temperature survival in 3761	Rhynchaenus fagi diapause in 1574	in Pennisetum americanum grain, varieta preferences of 1929
on barley, damage caused by 5531	in ÛK 1574	in rice grain
on grain crops damage caused by 2876, 3373	life-cycle of 1574 on Fagus, in England 1574	damage caused by 2086 effects of glazing on 593
forecasting infestations of 2875	Rhynchites, on apple, damage caused by	effects of humidity on 3132
in England 1388 in Sweden 5521	1455 Rhynchites cupreus	in rye grain, in New South Wales 1116 in stored grain, in Western Australia
on oats, damage caused by 5531	biology of 5064	4666
on pasture plants, in UK 5575 on Prunus padus	control of 5064 in USSR 5064	in wheat grain in Australia 2096
egg survival in 5384	on plum, in USSR 5064	in New South Wales 1116, 5225
in Sweden 5521 on range grasses, survival and	Rhynchites pauxillus biology of 5064	in wheat products, extracting of 3668 insecticide resistance in, in Western
reproduction of 2358	control of 5064	Australia 4666
on soyabean, in Illinois 6188	in USSR 5064	lindane resistance in, in India 6640
on wheat damage caused by 298, 2877, 6152	on apple, in USSR 5064 on damson, in USSR 5064	malathion resistance in, in India 6640 phosphine resistance in
in Brazil 5527	on pear, in USSR 5064	in India 6640
in Chile 5998 in Ukraine 1920	on plum, in USSR 5064 Rhynchocoris humeralis, in India 798	mechanisms of 4263 ribeana, Pandemis (see P. cerasana)
parasites of, in England 1388, 5519	Rhynchomermis, gen. nov., description of	Ribes
population dynamics of 1388, 5521 predators of	621 Rhynchomermis elongata	Cecidophyopsis ribis on 5056 Parlatoria oleae on, in Greece 3799
effects of insecticides on 5998	sp. nov., description of 621	Ribes alpinum, Eriosoma anncharlotteae on
in England 1388 seasonal abundance of 2875	in, <i>Palomena viridissima</i> , in Soviet Far East 621	in Sweden 2170 Ribes aureum, Aphidoidea on, in USSR
soyabean mosaic virus in, transmission of	Rhynchomermis nabiculensis	6585
6188 traps for 2875	sp. nov., description of 621 in, Nabidae, in Soviet Far East 621	Ribes grossularia (see Gooseberry) Ribes nigrum (see Currant, black)
opalosiphum rufiabdominalis	Rhynchopacha triatomaea (see Athrips	Ribes rubrum (see Currant, red)
in Kenya 4181 on potato, in Kenya 4181	rancidella) Rhynchophoridae, in Chandigarh 5404	ribesii, Nematus (Pteronidea) ribesii, Pteronidea (see Nematus ribesii)
opalosiphum yoksumi 6542	Rhynchophorus ferrugineus	ribesii, Syrphus
hoptrocentrus piceus biology of 4672	in India 1435 on coconut, in Karnataka 1435	ribis, Bryobia ribis, Cecidophyopsis
in West Germany 4672	rearing of, diets for 361	Ribonucleic acids
parasitising, Hylotrupes bajulus, in West Germany 4672	Rhynchophorus palmarum in Colombia 5517	diet component for, Lixophaga diatraeae
noptromeris, parasitising, Atherigona	on sugar-cane, in Colombia 5517	in Bombyx mori mid-gut, effects of
soccata, in Maharashtra 921	Rhynocoris costai in Italy 2430	moulting hormone on synthesis of 1207
nubarb (Rheum rhaponticum) Microthrix inconspicuella on, development	in hazel coppices, in Sicily 2430	in cell lines, Chilo iridescent virus
of 4482	parasitised by, <i>Telenomus viggianii</i> , in Sicily 2430	inhibiting synthesis of 6683 in eggplant, effects of <i>Urentius sentis</i> on
nubarb, palmate (see Rheum palmatum) nus ovata, Incisitermes fruticavus on, in	Rhynocoris erythropus, parasitised by,	1537
California 5119	Telenomus viggianii 2430	in Hydrous triangularis neurosecretory system 2211
nus radicans, Arge humeralis on, in Florida 4485	Rhynocoris fuscipes feeding behaviour in 3017	in Leptinotarsa decemlineata fat-body,
yacia herculea (see Ochropleura	in India 3017	effects of physiological state on 58
herculea) nyacionia	preying on, Henosepilachna vigintioctopunctata, in Karnataka	in Menochilus sexmaculatus oocytes, synthesis of 720
on Pinus, in Nearctic region 1176	3017	in mouse cell lines, insect growth
taxonomy of 1176 hyacionia buoliana	Rhyparochromus littoralis in Nigeria 6647	regulators inhibiting synthesis of 4168
in Netherlands 5772	in stored groundnuts, in Nigeria 6647	in Samia cynthia eggs, developmental
on Pinus contorta, in Netherlands 5772 parasitised by	seasonal abundance of 6647 Rhysipolis, parasitising, Euleia heraclei, in	changes in 4788 Ribonucleic acids, ribosomal
Temelucha arenosa, in British Isles	Spain 2463	in Bombyx mori eggs 4261
4211 T. interruptor, in British Isles 4211	Rhysipolis meditator 2463 rhysodoides, Asosylus	in Bombyx mori mid-gut, developmental changes in 1205
1. michiuptor, m Dittion Islos Tari		

Rhyacionia duplana logaea

in Pombus mori mid out developmental	Dicladiena armigera on contd	Nephotettiv virescens on 2013
in Bombyx mori mid-gut, developmental changes in 1205	Dicladispa armigera on contd. in Himachal Pradesh 6403	Nephotettix virescens on 2913 development of 3929
in Lucilia sericata 723	in Madhya Pradesh 2487, 5561	effects of temperature on 3900
in Musca domestica 723	in Punjab 2375, 3894, 6374	in Bangladesh 6404, 6424
in Tenebrio molitor 723	varietal preferences of 6415	in Nepal 6391
Ribonucleic acids, viral	Diopsis macrophthalma on	in Orissa 1406, 2903
in Bombyx mori flacherie virus 3153	damage caused by 1934	in Thailand 911
in small isometric viruses of invertebrates	in Nigeria 3973	in West Bengal 3405, 5031
3160	Draeculacephala clypeata on, in Colombia	rearing of 6384
Ricaniidae, in New Zealand 4210	3940	varietal preferences of 3915
Rice (Oryza sativa) Acigona infusella on, not surviving 5507	Elasmopalpus lignosellus on, varietal preferences of 5566	Nilaparvata lugens on antifeedant for 4516
Acrididae on, in Bangladesh 6424	Euscyrtus concinnus on	assessing infestations of 1319, 2384
Agromyza oryzae on, in Japan 346	damage caused by 1408	damage caused by 338, 2381, 2387,
Aphididae on, in India 286	in India 901	2906, 6393, 6423
arthropod pests of	Hemiptera on, in Japan 917	distribution pattern of 2383
in Egypt 3371	Hortensia similis on, in Colombia 3940 Hydrellia spp. on	effects of cultural practices on 2384 effects of fertilizers on 341, 1401,
in Gambia 4182 Aspavia spp. on, damage caused by 6417	damage caused by 3946	5554, 6383
Baliothrips biformis on	in Guyana 2373	effects of harvest date on 342
damage caused by 3923	in Karnataka 4510	effects of insecticides on 3927, 3928
in India 5468	in Philippines 2372, 3960	effects of plant growth stage on 34
in Tamil Nadu 890	in Tamil Nadu 890, 3941	effects of plant spacing on 342
resistance to 6414 varietal preferences of 3391, 3923	H. philippina on in Kerala 6396	effects of ploughing on 341 effects of weather on 3948
Brachmia arotraea on, in Orissa 3392	in Orissa 5034	effects of weed control on 341
Brevennia rehi on, damage caused by	in Tamil Nadu 3954	effects of wind speed on 342
6398	Hysteroneura setariae on, damage caused	forecasting infestations of 2385
Caenoblissus pilosus on, in Papua New	by 3918	in Bangladesh 3409
Guinea 903 carbofuran in	insect pests of distribution patterns of 140	in India 343
fate of 3917	distribution patterns of 140 effects of sowing date on 892	in Indonesia 1412, 4513 in Japan 1403, 2386
persistence of 3907	in Asia 900	in Karnataka 886, 887, 3963, 3971
residues of 2902, 3904	in Assam 4142	in Kerala 3939
Cerodontha oryzivora on, varietal	in Bangladesh 4495, 5032	in Kyushu 2912
preferences of 3935 Chaetogeoica polychaeta on, in West	in Bihar 2900 in Brazil 6410	in Orissa 327 in Philippines 3398, 3400, 3410, 39
Bengal 1834	in China 918	3967
Cheiracus sulcatus on, in Thailand 5551	in Indonesia 321, 3415	in Taiwan 1935, 3906
Chilo spp. on, damage caused by 3930	in Madhya Pradesh 3919	in Tamil Nadu 335, 345, 3393, 450
C. auricilius on damage caused by 4515	in Philippines 323 in Punjab 5553	in Thailand 911, 912, 3951 in Uttar Pradesh 3943, 6419
in Orissa 2903, 5559	in Sarawak 2651	in West Bengal 888, 899, 4507, 639
C. polychrysus on	in Sri Lanka 324	6399
damage caused by 6423	in Taiwan 6376	in West Malaysia 3407, 3408, 3916
in Bangladesh 2901 in Philippines 3895	in Thailand 325 in West Malaysia 322	6406, 6408 reinfestation by 3399
in Thailand 6411	in Western Australia 6421	resistance to 330, 339, 340, 341, 91
varietal preferences of 2376	resistance to 693, 1134	2389, 2390, 2391, 2392, 2393, 23
C. suppressalis on	traps for 2374	2395, 2396, 2397, 2398, 2399, 24
assessing infestations of 1400	Laodelphax striatella on	2910, 3402, 3698, 3897, 3960, 41
in France 1258 in Japan 894	in Kyushu 2912 in Punjab 3920	4514, 5548, 6388, 6402, 6412, 64 evaluating of 5547
in Philippines 905, 3895	sterol uptake by 732	genetics of 3403, 3899
in Thailand 6411	Lepidoptera on	mechanisms of 5560
rearing of 180	in India 1930	role of oxalic acid in 6385
varietal preferences of 3390 Chironomidae on, in California 5556	in Spain 3388 Leptocorisa spp. on	screening for 3389, 3401 silicic acid not involved in 6389
Chlorops oryzae on, assessing infestations	in Papua New Guinea 1402	varietal preferences of 3934
of 1400	in Philippines 3969	Nisaga simplex on, damage caused by
Cicadellidae on, in Egypt 889	L. acuta on, in Karnataka 6381	2378, 6418
Cixiidae on, in Egypt 889 Cletus punctiger on, in Japan 6108	Lissorhoptrus brevirostris on, in Cuba 3953	Nymphula depunctalis on in Kerala 914
Cnaphalocrocis medinalis on	L. oryzophilus on, in Japan 6378	in Philippines 2372
effects of fertilizers on 3933	Melanitis leda on	in Tamil Nadu 3393
effects of plant growth stage on 3386	in Manipur 3962	Oebalus insularis on, damage caused by
in Japan 4511, 6382 in Karnataka 5557	in Orissa 2907 <i>Mythimna separata</i> on	O. pugnax on, stylet sheaths as indicat
in Kyushu 1409	in Madhya Pradesh 2487, 3950, 5558	of feeding by 326
in Orissa 3392	in Rajasthan 6377	Oligonychus spp. on, varietal preferenc
in Philippines 904	M. unipuncta on, in Pakistan 902	of 3898 Value of Appendix
in Tamil Nadu 335, 3941 in Uttar Pradesh 3945	Nephotettix spp. on effects of fertilizers on 5554	Orseolia oryzae on
in West Bengal 3949	effects of weather on 3948	damage caused by 5036, 6394 effects of crop density on 6394
rearing of 897, 3387	in Taiwan 908	effects of sowing date on 3381
resistance to 3922	in West Bengal 3925	effects of split transplanting on 642
screening for 3387	in West Malaysia 5546, 6408	in Andhra Pradesh 2379
varietal preferences of 1933, 3932, 3933, 5550, 6415	N. cincticeps on distribution pattern of 333	in Madhya Pradesh 3947 in Orissa 328
Cofana spectra on 287	effects of plant growth stage on 910	in Thailand 2909, 3909
in Bangladesh 6424	effects of sowing date on 910	rearing of 3936
in Kerala 2908	electronic recording of probing by	resistance to 1399, 3912, 3922, 395
C. yatsumatsui on 287 Colaspis louisianae on, in Louisiana 4310	5370 in Japan 331, 916, 6379	3974, 6401 mechanisms of 5562
Delphacidae on, in Egypt 889	resistance to 2913, 3385	varietal preferences of 6375
Diatraea saccharalis on	N. nigropictus on	Oryzophagus oryzae on, effects of water
effects of fertilizers on 5037	in Karnataka 886, 887	depth on 4519
in Colombia 3940 Dicladispa armigera on	in Orissa 2903 in Thailand 911, 912	Oulema oryzae on, damage caused by 332
effects of fertilizers on 6422	in West Bengal 3405, 5031	Oxya yezoensis on, ovarian developmen
effects of plant spacing on 907	N. virescens × N. cincticeps on 2913	in 39
feeding by 6409		Panoquina spp. on, in Colombia 3940

lice contd.	Rice contd.	Rice grassy stunt virus
Parnara guttata on, rearing of 1404	Sesamia inferens on	control of 2402
Pelopidas mathias on	damage caused by 3930, 4515	in
in Orissa 2905	in Bangladesh 2901	Nilaparvata lugens, transmission of
varietal preferences of 5550	in Orissa 2907	
Pericapritermes socialis on, in Sierra	in Pakistan 3972	330, 1931, 2381
Leone 3918	in Philippines 3895	Oryza minuta, resistance to 1931
pest control on 918, 1171, 2388, 5496		rice
biological 693, 1646, 6001	Sitotroga cerealella on, in Punjab 5816	in Tamil Nadu 4508
cultural measures for 2402	Sogatella furcifera on	resistance to 2391
	damage caused by 3931, 3943	Rice penyakit habang virus (see Rice tungro
economics of 3903	in India -343	virus)
granular insecticides for 2372	in Karnataka 887	Rice ragged stunt virus
in Taiwan 6376	in Kyushu 2912	control of 2402
insecticidal root-dips for 890, 5034	in Madhya Pradesh 3924	in
insecticide application methods for	in Pakistan 3914, 6386	Nephotettix nigropictus, not transmitted
3917, 3968, 4509	in Philippines 3967	3406, 6390
insecticide formulations for 3411	in Tamil Nadu 345	N. virescens, not transmitted 3406,
insecticide placement for 3396	in Thailand 911, 912	6390
insecticides for 892, 916, 2487, 4182,	in West Malaysia 3916, 6406, 6407,	Nilaparvata lugens, transmission of
5555, 5563, 5564, 6380	6408	330, 883, 884, 885, 3406, 6405
integrated 319, 320, 321, 322, 323,	varietal preferences of 898, 3921, 3943	Oryza latifolia, infectivity of 883, 885
324, 325, 4518, 5567	Sogatodes orizicola on	O. nivara, infectivity of 883, 885
plant parts for 3902	in Brazil 3966	Recilia dorsalis, not transmitted 3406,
root-zone insecticide applications for	in Cuba 4445	6390
6396	Spodoptera spp. on, in Colombia 3940	rice
seed treatments for 3905	stem borers on, resistance to 3960	effects of 883
spray equipment for 6399	Steneotarsonemus spinki on	in China 6405
spray volumes for 3400	damage caused by 3382, 3383	in India 3937
thresholds for 332, 2387, 2906	varietal preferences of 3382	in Philippines 883
timing of 1935	Stenocoris spp. on, damage caused by	in Sri Lanka 891
pest management on 344	6417	in Tamil Nadu 891
pests of	Susumia exigua on, resistance to 4179	in Thailand 3406
in Karnataka 4183	Tetraneura nigriabdominalis on, in Sierra	in West Bengal 899
in Kerala 1902	Leone 3918	infectivity of 885
phorate in, residues of 5552	Thaia oryzivora on, damage caused by	resistance to 3402
Pseudococcidae on, in Papua New Guinea	3964	Sogatella furcifera, not transmitted
903	Tipula aino on, damage caused by 1411	6390
Pseudonapomyza asiatica on, in	Tryporyza spp. on	Rice (stored grain)
Philippines 3938	damage caused by 882	arthropod pests of, book 1609
rice grassy stunt virus in	in Philippines 2372	carbofuran in, residues of 3904
in Tamil Nadu 4508	Zygina maculifrons on, in India 336	insect pests of
planthopper transmission of 1931	Rice bean (see Vigna umbellata)	effects of glazing on 593
resistance to 2391	Rice black-streaked dwarf virus, in,	imported into Nigeria 6644
rice ragged stunt virus in	Laodelphax striatella, transmission of	in Nigeria 3651
effects of 883	3920	Oryzaephilus surinamensis in, in Iran
in China 6405	Rice bran, diet component for, Dichocrocis	228
in India 3937	punctiferalis 4877	pest control in
in Philippines 883	Rice dwarf virus	fumigants for 589
in Sri Lanka 891	in	humidity control for 3113
in Tamil Nadu 891	Nephotettix cincticeps, transmission of	pre-harvest insecticide sprays for 1112
in Thailand 3406	2913	Rhyzopertha dominica in
in West Bengal 899	N. virescens, not transmitted 2913	damage caused by 2086
infectivity of 885	N. virescens × N. cincticeps,	effects of humidity on 3132
resistance to 3402	transmission of 2913	Sitophilus oryzae in, in Taiwan 4677
rice transitory yellowing virus in	Rice-fields	S. zeamais in
in Japan 896	Araneae in	development of 2086 effects of humidity on 3132
in Taiwan 896	in Kerala 3939	
rice tungro virus in	in West Bengal 4507	effects of husk integrity on 2086
in Indonesia 1932	carbofuran in, effects on fish of 3903	in Taiwan 4677
in Nepal 6391	Casnoidea interstitialis in, in West	oviposition by 2086 Sitotroga cerealella in
in Orissa 1406	Malaysia 6408	sex-pheromone production by 4117
in West Bengal 3405, 3925	Chironomidae in, in South Korea 3965	varietal preferences of 1613, 5820
infectivity to vectors of 5033 leafhopper transmission of 6413, 6416	Cicadellidae in, in Egypt 3394 Cixiidae in, in Egypt 3394	Tenebroides mauritanicus in, development
	cultural practices in, effects on insect pests	of 6643
rice yellow mottle virus in, in Caucasus 5545	of Vigna unguiculata of 3952	Trogoderma granarium in, imported into
Riptortus spp. on, damage caused by	Cyrtorhinus lividipennis in, in West	USSR 1607
6417	Malaysia 3916, 6406, 6408	Rice stripe virus
Rupela albinella on, varietal preferences of	Delphacidae in, in Egypt 3394	in
6387	Hemicheyletia vescus in, in Pakistan	Laodelphax striatella, transmission of
Schizaphis graminum on, in Caucasus	4982	3920
5545	Meenoplidae in, in Egypt 3394	rice, in USSR 5545
Schizotetranychus oryzae on, damage	Nephotettix cincticeps in, overwintering of	Rice transitory yellowing virus
caused by 4520	2914	in
Scirpophaga incertulas on	Paederus fuscipes in, in West Malaysia	Nephotettix cincticeps, transmission of
damage caused by 1405, 3930, 4515,	3916, 6408	896, 2913
5032	parasitic insects in	N. malayanus, not transmitted 896
effects of fertilizers on 3404	effects of insecticides on 328, 6411	N. nigropictus, transmission of 896
in Andhra Pradesh 2379	in Indonesia 3415	N. virescens, transmission of 896,
in Bangladesh 2901, 6425	in Philippines 3908	2913
in Karnataka 5549	in West Bengal 906	N. virescens × N. cincticeps,
in Orissa 1407	Pipunculidae in, in Thailand 913	transmission of 2913
in Pakistan 3972	predatory arthropods in	rice
in Philippines 3895	effects of insecticides on 6407, 6411,	in Japan 896
in Tamil Nadu 335, 5035	6424	in Taiwan' 896
in West Bengal 906, 3910, 6395	in Philippines 3908	Rice tungro virus
resistance to, genetics of 3913	predatory insects in	control of, vector control for 1406
varietal preferences of 2376, 2377,	effects of insecticides on 3407, 4179	in
3414, 5565	in Indonesia 3415	Echinochloa colonum, infectivity of
S. innotata on	Tetragnatha virescens in, in tropical Asia	3405
in Pakistan 3972	4512	Nephotettix nigropictus, in West Bengal
in Philippines 3895	Trichogrammatidae in, in Thailand 2370	3405

in contd.	Aphidoidea on, in USSR 6585	Quadraspidiotus perniciosus in, on app
Nephotettix contd.	Appendiseta robiniae on, in Italy 5794	5603
N. virescens	Ecdytolopha insiticiana on, in Maryland	Schizaphis graminum in 866
acquisition through Parafilm of	502	Sitobion avenae in, on wheat 6349
3956	Lymantria dispar on, development of	Tetranychus urticae in, on glasshouse
in West Bengal 3405 infectivity of 5033	1587 Megacyllene robiniae on, in Ohio 1102	crops 5481 romin, Palpifer sexnotatus
transmission of 1406, 1932, 3900,	Nematus abbottii on, in Oklahoma 1080	Rondotia menciana
6384, 6413, 6416	phenology of, correlation of Agromyza	in China 5473
N. virescens × N. nigropictus,	frontella development and 4884	parasitised by, Telenomus rondotiae, i
transmission of 334	robiniae, Amblycerus	China 5473
rice	robiniae, Appendiseta	rondotiae, Telenomus
in Indonesia 1932 in Nepal 6391	robiniae, Megacyllene robiniae, Prionoxystus	Ronnel (see Fenchlorphos) Rook (see Corvus frugilegus)
in Orissa 1406	roborator, Exeristes	Root crops
in West Bengal 3405, 3925	robusta, Hypsipyla	arthropod pests of
infectivity to vectors of 5033	robusta, Phyllotreta	in Finland 1903, 4476
morphology of 1932	robusta, Trichogrammatoidea	in Scotland 4175
propagation of 6384 vectors of, seasonal abundance of 3925	robustella, Tetralopha robustus, Aeroglyphus	Root crops (stored), insect pests of, in
Rice waika virus, in, Nephotettix cincticeps,	robustus, Kakothrips (see K. pisivorus)	Swaziland 4662
transmission of 893	rocciai, Charletonia	Ropalidia, in Nepal 2167
Rice yellow mottle virus	rocia, Ametastegia	Roptrocerus xylophagorum
control of, vector control for 5545	rockburnei, Euxoa Rodenticides, sales of, in Finland 6701	biology of 5397 host preferences in 5151
rice, in Caucasus 5545	Rogadinae, venom apparatus in 2672	in Mexico 1649
Schizaphis graminum	Rogas	in USA 2594, 5151
pathogenicity of 5545	parasitising	in USSR 5397
transmission of 5545	Chrysodeixis chalcites, in New Zealand	on host food-plants, distribution patte
Sesselia pusilla, transmission of 5545 vectors of 696	4823 Malacosoma disstria, in Minnesota	2594 parasitising
richardsoni, Coccinella transversoguttata	2568	Dendroctonus spp., in Mexico 164
richteri, Solenopsis	Mocis spp., in Cuba 3853	D. frontalis, in Georgia (USA) 51:
ricini, Pericallia	Rogas indiscretus	Ips grandicollis, in Georgia (USA)
ricini, Philosamia cynthia (see Samia	descriptions of 4107	5151
cynthia ricini) ricini, Samia cynthia	diapause in 73 distribution of 4107	Phloeosinus dentatus, in Georgia (U 5151
Ricinus communis (see Castor)	hosts of 4107	Scolytidae, in Lithuania 5397
Riciphon (see Trichlorphon)	parasitising, Lymantria dispar 73, 4107	rorida, Leucopholis
Rickettsiaceae	Rogas lymantriae	Rosa
in 2112	descriptions of 4107	Allantus cinctus on, in USSR 6585
insects 2113 diagnostic manual 4139	distribution of 4107 hosts of 4107	Edwardsiana rosae on, in Wales 191 insect pests of, in USSR 1556
Lymantria dispar, in Yugoslavia 5863	parasitising, Lymantria dispar 4107	Loxostege sticticalis on, in USSR 65
plants, review 6669	Rogas malacosomatos	Lymantria dispar on, in USSR 6585
rigidus, Aspidiotus	sp. nov., description of 1092	Pantomorus cervinus on 5081
rileyana, Ramosia (see Synanthedon	in Canada 1092	pest control on 1556
rileyana) rileyana, Synanthedon (Ramosia)	parasitising Malacosoma americanum, in Canada	Sphecidae on, in Uzbekistan 3337 Trabala vishnou on, feeding by 1819
rimosa, Okanagana	1092	Rosa canina, Rhagoletis alternata on, in
ringoniella, Phyllonorycter	M. californicum, in Canada 1092	Norway 5013
riparia, Labidura	M. disstria, in Canada 1092	rosa, Ceratitis (see Pterandrus rosa)
Ripcord (see Cypermethrin)	Rogas nolophanae	Rosa eglanteria, Endelomyia aethiops or
Riptortus on rice, damage caused by 6417	in USA 461 parasitising, <i>Plathypena scabra</i> , in	Lithuania 5396 Rosa moschata
on Vigna radiata, in Sri Lanka 429	Arkansas 461	Altica cyanea on, in Himachal Prades
Riptortus clavatus	Rogas pulchripes	2553
biology of 1513	in UK 4100	Anthaxia baconis on, in Himachal
distribution of 1513 in Japan 1513	parasitising, Acronicta spp., in England 4100	Pradesh 2553
on soyabean, in Japan 1513	Rogas stigmator, taxonomy of, characters	Colaspoides spp. on, in Himachal Pra 2553
parasites of, in Japan 1513	distinguishing R. malacosomatos and	rosa, Pterandrus (Ceratitis)
Riptortus dentipes	1092	Rosa rugosa, Rhagoletis alternata on, in
in Nigeria 454	rogatalis, Hellula	Norway 5013
on Vigna unguiculata, in Nigeria 454 Riptortus linearis	rogeri, Strumigenys	Rosa sinensis, Eotetranychus pruni on, i China 4866
distribution of 2265	Rogor (see Dimethoate) Romania	Rosaceae
in India 1840, 2265	Anarsia lineatella in, on peach 5615	insect pests of, in Ukraine 5183
in Malaysia 436	Braconidae in 3311	Sphecidae on, in Uzbekistan 3337
on Vigna radiata, in Sarawak 436	Cydia delineana in, on hemp 3047	rosaceana, Choristoneura
Riptortus pedestris in Burma 795	C. molesta in, on peach 5615	rosae, Aphidius rosae, Athalia
in India 795	C. pomonella in, on apple 5603 Eurygaster spp. in, on grain crops 294,	rosae, Aulacaspis
in Malaysia 795	5522	rosae, Edwardsiana
in Sri Lanka 795	E. integriceps in, on wheat 872	rosae, Macrosiphum
Rivellia, on legumes, damage caused by	field crops in, arthropod pests of 2849	rosae, Psila
453 River drainages, aquatic insects in, in Maine	Haplodiplosis marginata in, on wheat 871	rosaeiformis, Macrosiphum (see Sitobior
3315	Hoplopteridius lutosus in 3877	rosaeiformis) rosaeiformis, Sitobion (Macrosiphum)
riyadhi, Aphytis	Hypera postica in	rosarum, Aulacaspis
RNA (see Ribonucleic acids)	natural enemies of 2414	Rose
RNA polymerase (see	on lucerne 2414	Allantinae on, in North America 11
Nucleotidyltransferase, ribonucleate) Ro 8-9801 (see Oxirane, 3-[5-(4-	Ichneumonidae in 839	Aulacaspis rosae on, in New Zealand
ethylphenoxy)-3-methyl-3-pentenyl]-2,2-	Lepidoptera in 105, 5378 Leptinotarsa decemlineata in, on potato	160 Bryobia cristata on, in UK 1451
dimethyl-, (E) -)	5692, 5700	Clepsis spectrana on, in Netherlands
Ro 10-3108 (see Epofenonane)	Loxostege sticticalis in 6700	Colaspis louisianae on, in Louisiana
Ro 20-3600 (see 1,3-Benzodioxole, 5-[[5-(3-	Myzus persicae in	Endelomyia aethiops on, in Lithuania
ethyl-3-methyloxiranyl)-3-methyl-2-	on eggplant 5700	5396 Enibleme avgoshetelle on in British
pentenyl]oxy]-, (E)-) Roadsides, social Hymenoptera in, in France	on potato 5700 Noctuidae in 106	Epiblema cynosbatella on, in British Columbia 1065
123	Oscinella frit in, on barley 875	Epichoristodes acerbella on 501

Rose contd.	Rubroscirus africanus	Rumex
Eutetranychus orientalis on, in Madhya	sp. nov., description of 5	biological control of 5924
Pradesh 4295	food-plants of 5	Colaspis louisianae on, in Louisiana 4310
Macrosiphum rosae on, assessing	in South Africa 5	Gastrophysa atrocyanea on, feeding by
infestations of 3301	in Zimbabwe 5	849
Pandemis cerasana on, in British	preying on	
Columbia 1065		Rumex crispus, Microthrix inconspicuella
	Panonychus citri 5	on, development of 4482
pest control on	Pronematus spp. 5	Rumex obtusifolius
biological 5953	Rubroscirus rarus	Gastrophysa atrocyanea on
insecticides for 1695	sp. nov., description of 5	and biological control using, in Japan
Resseliella oculiperda on 5066	in South Africa 5	851
Sitobion rosaeiformis on, in Himachal	on Lantana camara, in South Africa 5	feeding by 849
Pradesh 5137	Rubroscirus vestus	G. viridula on, in England 1906
Tetranychus urticae on 508	sp. nov., description of 5	insect enemies of, in Japan 850
in England 5735	in South Africa 5	Myzus persicae on, settling by 3295
reproduction by 3566	on Lantana camara, in South Africa 5	Trachea anguliplaga on, in Brazil 1908
Rosefinch, scarlet (see Carpodacus	on orange, in South Africa 5	Rumex pulcher, Microthrix inconspicuella
erythrinus)	Rubus	on, in South Africa 4481
oseipennis, Nabis (Reduviolus)	Acleris tripunctana on, in West Germany	rumicis, Acronicta
oseipennis, Reduviolus (see Nabis		rungsi, Asolcus (see Trissolcus rungsi)
roseipennis)	1575	rungsi, Trissolcus (Asolcus)
Roselle (Hibiscus sabdariffa)	Asterobemisia carpini on, in Netherlands	Rupela albinella
okra mosaic virus in, beetle transmission	3829	in Guyana 6387
of 5092	Coccura comari on, in Poland 2271	on rice, varietal preferences of 6387
Spilostethus pandurus on, in India 3034	Hemithea aestivaria on, in British	rupestris, Bradycellus
Roselle (stored calyxes)	Columbia 1974	rusci, Ceroplastes
insect pests of, in Egypt 2607	Lindbergina aurovittata on, in Wales 191	Rusks, Plodia interpunctella in, in USSR
Lasioderma serricorne in, development of	Oligonychus mangiferus on, in Madhya	3128
2608	Pradesh 4295	rustica, Dexia
Rosemary (Rosmarinus officinalis)	Pandemis heparana on, in British	rusticus, Arhopalus (Criocephalus)
Mycoplasmatales in	Columbia 950	rusticus, Criocephalus (see Arhopalus
pathogenicity to Drosophila of 5836	Rubus allegheniensis, phenology of,	rusticus)
pathogenicity to Galleria of 5836	correlation of Agromyza frontella	Rutabaga (see Swede)
osenschoeldi, Eudiagogus	development and 4884	Rutaceae
losmarinus officinalis (see Rosemary)	rubus, Batocera	Chrysomelidae on 5618
ossia, Chrysomela	Rubus chamaemorus, Coleophora plumbella	Papilio spp. on, in Ghana 5360
ossica, Blaesoxipha	on, in Finland 3985	Sphecidae on, in Uzbekistan 3337
ossius, Bacillus	Rubus fruticosus (see Blackberry)	Rutela lineola
ostrale, Tranosema	Rubus idaeus (see Raspberry)	biology of 2066
ostrata, Aelia	Rubus strigosus (see Raspberry)	in Brazil 2066
Rotenone	Rudbeckia amplexicaulis, Uroleucon	in Eucalyptus wood, in Brazil 2066
against, Gryllodes sigillatus 6711	rudbeckiae on, in Oklahoma 1062	Rutelinae, flight activity in, relation of
in Coccinella septempunctata, toxicity of	rudbeckiae, Dactynotus (see Uroleucon	coloration and 2184
1712	rudbeckiae)	rutherfordi, Tryphactothrips
in Gryllodes sigillatus, effects of crowding	rudbeckiae, Uroleucon (Dactynotus)	Rutilotrixa diversa
on susceptibility to 6711	rudis, Aphaenogaster	in Australia 1091
otermundi, Sthenarus	rueppellii, Sphaerophoria	parasitising, Abantiades latipennis, in
othamsted Insect Survey 6737	rufa, Formica	Tasmania 1091
othii, Campoplex	rufa, Galeruca	rutilus, Phyllotrox
cothschildia, parasitised by, Emdenimyia spp. 4726	rufa, Solenopsis geminata rufa, Vespula	Rutin, Yponomeuta feeding responses to 4775
otundata, Megachile	rufescens, Diatraea	Ryania
low spacing	rufiabdominalis, Rhopalosiphum	against, Cydia pomonella, on apple 2956
of soyabean, effects on pests and natural	ruficollis, Schizonycha	in Ooencyrtus kuwanai, toxicity of 1159
enemies of 460	ruficornis, Andrector (see Cerotoma	in Telenomus terebrans, toxicity of 1159
of Trifolium repens, effects on Coleophora	ruficornis)	Ryanicide (see Ryania)
of 6439	ruficornis, Cerotoma (Andrector)	Rye (Secale cereale)
owan (see Sorbus aucuparia)	ruficornis, Nemorilla	Cnephasia pumicana on, in France 4502
wani, Telenomus	ruficornis, Trigonotylus	cocksfoot mottle virus in, infectivity of
ylei, Antheraea	ruficrus, Apanteles	5518
oztoczol (see Chlorfenson)	rufifasciata, Gymnoscelis	Mayetiola destructor on, resistance to
U-15525 (see Cyclopropanecarboxylic acid,	rufilabris, Chrysopa	6155
3-[(dihydro-2-oxo-3(2H)-	rufipennis, Dendroctonus	Oscinella frit on, damage caused by 1369
thienylidene)methyl]-2,2-dimethyl-, [5-	rufipennis, Polygraphus	pest control on, thresholds for 4502
(phenylmethyl)-3-furanyl]methyl ester,	rufipes, Aphodius	Schizaphis graminum on, feeding by
$[1R-[1\alpha,3\alpha(E)]]-)$	rufipes, Camponotus	4503
ubber (Hevea brasiliensis)	rufipes, Harpalus (Ophonus)	Sipha flava on, resistance to 3372
Erinnyis ello on, in Brazil 4087	rufipes, Hylurgopinus (see H. opaculus)	Rye fields
pest control on, integrated 322	rufipes, Necrobia	Carabidae in, in West Germany 6357
ubber (wood), fungi in, responses of	rufipes, Ophonus (see Harpalus rufipes)	Staphylinoidea in, in West Germany
termites to 5226	rufipes, Pentatoma	6358
ibens, Ceroplastes	rufiscutellaris, Glypta	Rye (stored grain)
ibi, Anthonomus	rufiventris, Cyclotelus (Epomyia)	Bacillus thuringiensis in, persistence of
ubiaceae, Bemisia tabaci on, in Brazil	rufiventris, Epomyia (see Cyclotelus	594
2015	rufiventris)	pest control in
bicola, Aphis	rufiventris, Microplitis	Bacillus thuringiensis for 3129
ubidium	rufiventris, Paragus tibialis	protective atmospheres for 1116
in Delia antiqua diet, as marker 2226	rufocinctus, Sphex	Ryegrass mosaic virus, in, Abacarus hystrix,
ion (Rb ¹⁺)	rufocyanea, Lema (see Oulema rufocyanea)	transmission of 3440
in Hyalophora cecropia	rufocyanea, Oulema (Lema)	SA-20 (see 2,4-Dodecadienoic acid, 11-
transport across mid-gut of 6054	rufomaculata, Batocera	chloro-3,7,11-trimethyl-, ethyl ester,
uptake from mid-gut of 1785	rufovariegatus, Coeloides	(2E,4E)-)
bidus, Chilocorus	rufovillosum, Xestobium	sabalis, Comstockiella
bidus, Pityophthorus	rufulus, Enaphalodes	sabella, Arenipses
ubitox (see Phosalone)	rufus, Philodromus	sabulifera, Anomis
bra, Myrmica	rugiceps, Euetheola	sabulosella, Eudonia
ubratoxin B, Tribolium confusum not	ruginodis, Myrmica	Sacadodes pyralis in Colombia 5124
responding to 6179	rugosostriatus, Otiorhynchus rugosus, Acromyrmex	internal anatomy of 5124
pbriceps, Inopus pbrioculus, Bryobia	rugosus, Pogonomyrmex	on cotton, in Colombia 5124
brocinctus, Selenothrips	rugulipennis, Lygus	saccharalis, Diatraea
bropilosa, Atta sexdens	rugulosa, Myrmica	saccharella, Opogona
ubroscirus, gen. nov., description of 5	rugulosus, Scolytus	sacchari, Aphis (see Melanaphis sacchari)
	• • •	

sacchari, Melanaphis (Aphis)
sacchari, Oligonychus
sacchari, Oligonychus sacchari, Opogona
sacchari, Saccharicoccus
Saccharic acid (see D-Glucaric acid)
saccharicida, Perkinsiella
Saccharicoccus sacchari, on sugar-cane,
varietal preferences of 1381
saccharicola, Anagyrus
saccharina, Eldana
saccharina, Lepisma
sacchariphagus, Chilo
saccharivorus, Cavelerius
Saccharose (see α-D-Glucopyranoside, β-D-
fructofuranosyl)
Saccharum munja, Neomaskellia bergii on,
in Uttar Pradesh 2351, 2352
Saccharum officinarum (see Sugar-cane)
Saccharum officinarum × S. spontaneum,
Saccharicoccus sacchari on 1381
Sacchiphantes torii
sp. nov., description of 1559
in Japan 1559 on <i>Larix</i> , in Japan 1559
on Larix, in Japan 1559 on Picea, in Japan 1559
Sacking, insecticides in, persistence of 5824
sacra, Tipula
SADH (see Daminozide)
Sadofos (see Malathion)
SAFETY, directions for using agricultural
chemicals 6703
Safflower (Carthamus tinctorius)
Acanthiophilus helianthi on, in Turkey
1311
biocontrol agents for thistle feeding on
5505
Ceutorhynchus trimaculatus on, not
ovipositing 5010
Chaetorellia carthami on, damage caused
by 477
Lygus spp. on, migration to cotton of
2298
pest control on, biological 5952
pollination of 6556
Uroleucon compositae on
in Karnataka 4056
varietal preferences of 2508
Safflower fields
parasitic insects in, in Andhra Pradesh 6310
pollinating insects in, in Victoria 6556
Political Missess III, III + Iceolia 0000
predatory arthropods in migration to
predatory arthropods in, migration to cotton fields of 2298
predatory arthropods in, migration to cotton fields of 2298 Saffron (see Crocus vernus)
Sarron (see Crocus vernus)
Safrole (see 1,3-Benzodioxole, 5-(2-
Sarron (see Crocus vernus)
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-)
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis)
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet,
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius. Onthonhagus
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Nigeria 6575 on cacao damage caused by 583
Safron (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia)
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kittis-Nevis-Anguilla, cotton in, insect
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121 Saissetia. parasitised by, Prococcophagus
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia coffeae
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 Saissetiae, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia coffeae in India 4083
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia coffeae in India 4083 on coffee, in Tamil Nadu 4083
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia coffeae in India 4083 on offee, in Tamil Nadu 4083 on olive, in Mediterranean region 3506
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia offeae in India 4083 on coffee, in Tamil Nadu 4083 on olive, in Mediterranean region 3506 Saissetia miranda, on cassava 1023
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia, offeae in India 4083 on coffee, in Tamil Nadu 4083 on olive, in Mediterranean region 3506 Saissetia miranda, on cassava 1023 Saissetia miranda, on cassava 1023
Safrol (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia coffeae in India 4083 on coffee, in Tamil Nadu 4083 on olive, in Mediterranean region 3506 Saissetia miranda, on cassava 1023 Saissetia ingrella in South Africa 26
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia coffeae in India 4083 on coffee, in Tamil Nadu 4083 on coffee, in Tamil Nadu 4083 on olive, in Mediterranean region 3506 Saissetia miranda, on cassava 1023 Saissetia nigrella in South Africa 26
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 St. Vincent, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia nigrella in South Africa 26 on Ficus natalensis, in South Africa 26 parasitised by, Metaphycus neseri, in
Safrole (see 1,3-Benzodioxole, 5-(2-propenyl)-) Sage (Salvia officinalis) as companion crop for insect control 3512 not protecting cabbage against lepidopterous pests 2471 Sage oil, in Tyrophagus putrescentiae diet, effects on development of 6172 sagittarius, Onthophagus Sahlbergella singularis control of, insecticides for 583, 4078 in Cameroon 583, 4078 in Nigeria 6575 on cacao damage caused by 583 distribution pattern of 6575 in Cameroon 4078 Sainfoin (Onobrychis viciifolia) Micromerus erivanicus on, in Turkey 3980 Sitona callosus on 1763 St. Kitts-Nevis-Anguilla, cotton in, insect pests of 5121 Saissetia, parasitised by, Prococcophagus saissetiae, in South Africa 4450 Saissetia coffeae in India 4083 on coffee, in Tamil Nadu 4083 on coffee, in Tamil Nadu 4083 on olive, in Mediterranean region 3506 Saissetia miranda, on cassava 1023 Saissetia nigrella in South Africa 26

```
Saissetia oleae contd.
   control of
       biological 2455, 2457, 3506, 4174,
            6490
       cultural 406
       insecticides for 205, 986, 6493
    hyperparasites of, in Libya 3508
   in Chile 4174
   in France 2457, 3506
in Greece 3506, 5640, 6490
   in India 4493
in Israel 4560, 4561
   in Italy 986, 2455
in Libya 3508, 5083
   in Turkey 64
in USA 406
    life table for 4560
    on Carduus pycnocephalus, in Greece
    on Citrus
      distribution pattern of 4561
in Israel 4560
in Italy 2455
   on eggplant, in Turkey 6493
on Nerium oleander, in Italy 2455
    on okra, in Turkey
                                  6493
    on olive
       damage caused by 3506
       in California 406
in France 2457
in Greece 5640, 6490
      in Italy 2455
in Libya 3508
in Mediterranean region 3506
       in Sicily 986
       in Turkey 6493
   on sour orange, in Italy 2455 on Tamarindus indica, in India
    parasites of
       in Greece
      in Libya 3508
rearing of 3506
    parasitised by
       Metaphycus swirskii 26
       Prococcophagus probus, in South Africa
            4450
       P. varius, in South Africa 4450
   population dynamics of 4560, 4561 predators of, in Libya 5083
    preyed on by
       Chilocorus bipustulatus, in Israel 4560
Coccinellidae, in West Indies 249
Exochomus quadripustulatus, in France
            2457
rearing of, techniques for 3506 saissetiae, Prococcophagus sakuntalae, Oxyopes Salanniu, in Azadirachta indica 637 Saldidae, feeding habits of, evolution of
salicaphis, Adialytus
Salicin (see \( \textit{\textit{B-D-Glucopyranoside}}, 2-\)
(hydroxymethyl)phenyl)
saliciperda, Helicomyia
salicis, Chionaspis
salicis, Leucoma (Stilpnotia)
salicis, Stilpnotia (see Leucoma salicis) salignus, Tuberolachnus
    Acleris tripunctana on, in West Germany
    Allantinae on, in North America 1178
    Anacampsis populella on, in West
         Germany 1575
    Cossonus linearis on, in England 3093
C. parallelepipedus on, in England 3093
    Edwardsiana acericola on, in Kazakhstan
         3604
    Gonimbrasia tyrrhea on, in southern
Africa 5169
insect pests of, in Ukraine 5183

Rabdophaga spp. on, galls of 3599

Tenthredinidae on, in Europe 5746

Salix alaxensis, Psylla palmeni on, in Alaska
Salix alba
   Cavariella aegopodii on, in UK 5110
Helicomyia saliciperda on, in Austria
Salix babylonica, Leucoma salicis on,
     development of 1069
Salix caprea, Chaitophorus spp. on, in Jammu and Kashmir 2765
```

```
Salix fragilis, Cavariella aegopodii on, in
     UK 5110
Salix glauca, Psylla palmeni on, in Alaska
     513
Salix lanata
   Dorytomus lapponicus on 3603
   Psylla palmeni on, in Alaska 513
Salix lapponum, Dorytomus lapponicus on
Salix nigra, Nymphalis antiopa on, in
     Wisconsin 4651
Salix phlebophylla, Psylla phlebophyllae on,
    in Alaska 513
Salix pulchra, Psylla palmeni on, in Alaska
    513
Salix purpurea
Helicomyia saliciperda on, in Austria
        2583
   Pterocomma italicum on, distribution
       pattern of 5762
Salix repens, Rabdophaga spp. on, in
    Netherlands 3599
Salix reticulata, Psylla phlebophyllae on, in
    Alaska 513
Salmalia malabarica (see Bombax
Salmana madaricum)
malabaricum)
salmaliae, Phyllocoptes
Salmonella, toxaphene in, mutagenicity of
Salsola iberica, Coleophora parthenica on, and biological control using, in
     California 4489
Saltatoria
   biology of 3242
   control of
      insecticides for 1673
      non-target effects of
      plant extracts for 637
   in Kuwait 1837
   nervous system in 4962
   on soyabean, in Missouri 459
Salticidae
   in Florida 2367 in cotton fields, effects of insect-resistant
varieties on 1047
in rice-fields, in West Bengal 4507
Salticus, dieldrin in, toxicity of 6328
salticus, Oxyopes
saltitans, Cydia (Laspeyresia)
saltitans, Laspeyresia (see Cydia saltitans)
in Lymantria dispar diet, effects on virus
production of 4935
in Tyrophagus putrescentiae diet,
requirement for 3772
Salvelinus fontinalis, prey of 2073
Salvia officinalis (see Sage)
Salvinia auriculata
   Lipostemmata humeralis on, damage caused by 4486
    L. major on, damage caused by 4486
Salvinia molesta
control of, biological 5944
   Lipostemmata humeralis on, not feeding
        4486
   L. major on, not feeding 4486
sambuci, Aphis
Sambucus
Gortyna flavago on 993
insects on, pollination by 4545
Sambucus ebulus, Cetonia aurata on, in
Italy 4296
Samia cynthia
   adult development in 5 diapause in 5340, 5365
Samia cynthia ricini
   Bombyx mori prothoracicotropic hormon
   in, effects of 664
chromosomes in 3285
   effects of γ-irradiation on 4277 enzymes in 3254, 4472
   moulting in
      carbohydrate metabolism during 3254 lipid metabolism during 3254
   npid metadorish during 3234
nucleic acids in, during embryonic
development 4788
on castor, effects of fertilizers on 4369,
```

4370

physiology of, Chinese research on 2189 silk of, amino acids in 744

silk production in effects of fertilizers on 4369

N		
Samia cynthia ricini contd.	Sarothamnus scoparius contd.	Scambus transgressus contd.
silk production in contd.	Eriophyes genistae on, in Italy 2050	parasitising, Pleroneura spp., in California
effects of insect growth regulators on	Sarson, yellow (see Brassica campestris var.	3066
4366	sarson)	Scandinavia, Betula spp. in, insect pests of
	Saskatchewan	
spinning in, biochemical preparations for		5150
1802	Agrotis venerabilis in 4716	Scapanes
Sampling technique, Formicidae in colonies	Apamea devastatrix in 1135	biology of, review 5439
6295	Araneae in, in wheat fields 299	control of, review 5439
SAN 240 (see Baculovirus heliothis)		
	Autographa californica in 632	Scapanes australis
anborni, Macrosiphoniella	Euxoa albipennis in 4716	control of
Sancassania, on Carabidae, in Ontario 136	E. tristicula in 686	biological 3698, 4179
Sancassania berlesei (see Caloglyphus	Homoeosoma electellum in, on sunflower	insecticides for 4179
berlesei)	2206	
anctaecrucis, Anisodactylus		in Solomon Islands 3698, 4179
	Lepidoptera in 3236	on coconut
Sand pits, social Hymenoptera in, in France	Phyllotreta spp. in 5094	in Solomon Islands 3698
123	Phytocoris brooksi in, on Quercus 1067	resistance to 4179
anguinea, Cycloneda	Plutella xylostella in 1135	
anguinea, Formica		Scaphoideus littoralis (see S. titanus)
anguineus, Ecacanthothrips	Saltatoria in, in pastures 929	Scaphoideus titanus, grapevine flavescence
anguinipes, Melanoplus	Tachypterellus quadrigibbus in, on	dorée, causal agent in, transmission of
Saniosulus nudus	Amelanchier 937	368
	Saskatoon (see Amelanchier alnifolia)	Scaphytopius, in Florida 1962
descriptions of 1894		
in Egypt 1894	Sassafras oil, in Tyrophagus putrescentiae	Scaphytopius acutus, complex of, in Florida
in apple orchards, in Egypt 1894	diet, effects on development of 6172	1962
ankarani, Thomsonisca	Satellite surveys	Scaphytopius magdalensis, on blueberry, in
Sannina uroceriformis, attractants for 6212	for detecting breeding sites of Chortoicetes	Florida 1962
Sanpupemphigus, gen. nov., description of	terminifera 6282	Scaphytopius nitridus, peach X-disease,
2588	use in desert locust control of 1323	causal agent in, transmission of 2101
Sanpupemphigus sanpupopuli	satellitia, Eumorpha	Scapteriscus acletus
sp. nov., description of 2588	sativae, Liriomyza	burrows of, acoustical properties of 85
in China 2588	Saturniidae	food of 2411
on Populus, in China 2588	body temperature in, measuring of 2727	in USA 2411, 2412
anpupopuli, Sanpupemphigus	on fruit trees, in USSR 2946	on Cynodon dactylon, assessing
antonensis, Reticulitermes	pheromones in, recognition of 1725	infestations of 2412
ão Tomé and Príncipe, Coccodiplosis	Satyridae, in Spain 5412	Scapteriscus vicinus
coffeae in, natural enemies of 258	saucia, Lemnia	burrows of, acoustical properties of 85
aperda inornata		
	saucia, Peridroma	food of 2411
in USA 3084	Saudi Arabia	in USA 2411, 2412
on Populus tremuloides, damage caused	Aonidiella orientalis in, natural enemies of	on Cynodon dactylon, assessing
by 3084	2969	infestations of 2412
aperda populnea	arthropod pests in 1958	Scaptomyza, Stigmatomyces scaptomyzae in,
in UK 5208	arthropods in, book 2266	in Italy 4138
on Fraxinus excelsior, in England 5208	pest control in 1958	Scaptomyza flaveola
parasitised by, Billaea irrorata, in England	Rhopalocera in 1844	in Australia 5416
5208	Schistocerca gregaria in 1873	on swede, in Tasmania 5416
apodilla (see Achras zapota)	Sphingidae in 1844	Scaptomyza multispinosa
aponins, in forage legumes, not deterring	saundersi, Bruchidius	biology of 2465
feeding by Spodoptera eridania 2923	Sauris, on cinnamon, in India 281	in Chile 2465
apota (see Achras zapota)	sauteri, Eumicromus (see Micromus sauteri)	on brassicas, in Chile 2465
apote, black (see Diospyros dygyna)	sauteri, Micromus (Eumicromus)	parasitised by
apyga pumila	Savanna, leaf-cutting ants in, in Paraguay	Halticoptera scaptomyzae, in Chile
biology of 1952	2804	2465
control of, traps for 1952	Sawdust, in Oryctes nasicornis diet,	Hypodiranchis spp., in Chile 2465
in USA 1952	digestion of 5317	scaptomyzae, Halticoptera
parasitising, Megachile rotundata, in	saxeseni, Xyleborus	Scarabaeidae
Idaho 1952	saxonica, Dolichovespula	Bacillus popilliae in 3682
arcitorius, Ichneumon	sayi, Dectes	chromosomes in 4269
arcitrella, Endrosis	sayii, Latalus	control of, insecticides for 2780
arcophaga, cuticle in, hardening and	Sayphos (see Menazon)	flight activity in, relation of coloration
coloration of 5334	scaber, Porcellio	and 2184
arcophaga aldrichi	scabiosae, Coryna (Mylabris)	in Italy 4296
in USA 2568, 6213	scabiosae, Mylabris (see Coryna scabiosae)	in Switzerland 1832
parasitising, Malacosoma disstria, in	scabra, Plathypena	in Zimbabwe 4720
Minnesota 2568, 6213	scabrator, Acanthocoris	in dung, in Bangladesh 4403
arcophaga bullata, preyed on by, Phidippus	scabrator, Cerosterna (Coelosterna)	in eucalypt forests, in Victoria 5763
		in hay fields, in Georgia (USSR) 5577
audax 247	scabrator, Coelosterna (see Cerosterna	
arcophaga crassipalpis, diapause in,	scabrator)	in pastures, in Georgia (USSR) 5577
terminated by organic solvents 4258	scabrinodis, Myrmica	in pine forests, in Victoria 5763
arcophaga dasguptai	scabripennis, Octotoma	in soil, biology of 2780
sp. nov., description of (in Thyrsocnema)	Scaeva	in woodland, in Indiana 3302
4292	biology of 2312	on Cynodon magennisii, in Florida 3445
in Pakistan 4292	illustrations of 2312	on sugar-cane, in Japan 2859
parasitising, Eurygaster spp., in Pakistan	Scaeva pyrastri	on tobacco, in Zambia 1052
4292	development in, effects of humidity and	on wheat, in Yugoslavia 2869
arcophaga dux (see S. misera)	temperature on 3865	Paradoxiphis spp. on, in Australia 5290
arcophaga misera	in Bulgaria 1462	parasitised by, Microscolia spp., in Sri
in Bangladesh 6325	parasitised by, Ichneumonidae, in	Lanka 1175
	Palaearctic region 3346	traps for 3794
parasitised by, Brachymeria podagrica, in		Scarabaeoidea, in Dominica 1308
Bangladesh 6325	preying on, Myzus persicae, in Bulgaria	
arcophaga uliginosa, in China 6130	1462	Scatella
arcophagidae	scalaris, Megaselia	control of, timing of 782
in China 6129, 6130	Scambus, parasitising, Rhyacionia duplana,	flight activity in 782
in Crimea 3304	in Scotland 5157	on glasshouse crops, in Denmark 782
	Scambus annulatus	traps for 782
in Soviet Far East 154		
parasitising, Spodoptera litura, in Andhra	in Poland 2952	Scathophaga stercoraria
Pradesh 6574	parasitising, Coleophora spp., in Poland	fungi in, in Scotland 3162
arcoptiformes, in Norway 4407	2952	in ÜK 3162
argentia greggii, Anastrepha ludens on, in	Scambus pterophori	in cattle dung, intraspecific competition in
	in USA 2825	3423
Mexico 3356	parasitising, Epiblema scudderiana, in	Scatopse fuscipes
rothamni, Anthocoris		
arothamnus scoparius	Pennsylvania 2825	biology of 2991
Arytaina genistae on, in Czechoslovakia	Scambus transgressus	in Taiwan 2991
4648	in USA 3066	in mushroom houses, in Taiwan 2991

Scelio, parasitising, Papilio demoleus, in	Schistocerca gregaria contd.	Schizaphis graminum contd.
West Malaysia 404 Scelionidae	methoprene in, effects of 3330 migration in 5905	parasites of in Kazakhstan 3376
in Holarctic region 6032	models of 236	in Kenya 1390
larval head-capsules in 3368	moulting hormones in	parasitised by
taxonomy of, pleural characters for 1771	developmental changes in 1809	Aphelinus nigritus, in Texas 2917 Lysiphlebus testaceipes, in Texas 291
Scelioninae, in Holarctic region 6032 Scelionus (see Scelio)	effects of temperature on 6288 movement detectors in 752, 6070	Praon pakistanum, in Pakistan 1917
Sceliphron turanicum (see Chalybion	muscles in, tension receptors in 4423	predators of, in Kenya 1390
turanicum)	nervous system in 3751, 6069, 6070,	preyed on by, Menochilus sexmaculatus
Sceptrothelys grandiclava biology of 1428	6072 neuromuscular system in 749	6309 rice yellow mottle virus in
hyperparasitising, Hypera postica, in	neurophysiological techniques with 4870	pathogenicity of 5545
Colorado 1428 in USA 1428	nymphal development in, effects of	transmission of 5545 soyabean mosaic virus in, transmission of
parasitising, Bathyplectes curculionis, in	temperature on 6288 outbreak centres of 2755	1014
Colorado 1428	outbreaks of 235, 5915, 5917	Schizocharis, parasitising, Acrocercops
schaeferi, Apanteles schaeferi, Eurytoma	ovarian development in, effects of	caeruleus, in Tamil Nadu 6581 Schizocharis combretae
schaefferi, Taphrocerus	starvation and feeding on 1811	in Uganda 6581
Schedorhinotermes putorius, legs of, glands	Paroigolaimella coprophages in, pathogenicity of 5454	parasitising, Acrocercops caeruleus, in Uganda 6581
in 716 schencki, Myrmica	Philanthus triangulus venom in, effects on	Schizolachnus, on conifers, in Italy 2082
Schinus molle, Cyclophora nanaria on, in	muscles of 4766	Schizolachnus piniradiatae
Chile 4406 Schinus terebinthifolius, Aleurocanthus	plagues of 5905, 5906, 5907 population dynamics of 5902	Entomophthora canadensis in, in Ontario 5218
woglumi on, in Florida 4005	models of 114, 235	in Canada 5218
Schistocerca americana	precocenes in	on Pinus resinosa, in Ontario 5218
leg muscles in, degeneration of 2683 complex of, taxonomy of 4426	effects of 5272 effects on development of 4960	Schizomycetes 43, 567, 1864, 1865, 2108, 2113, 2141, 2548, 2654, 3152, 4120,
Schistocerca americana americana, in USA	rearing of, diets for 2319	4139, 5060, 5863
4426	spermatogenesis in, chromosome positions	Aerobacter aerogenes 6479
Schistocerca americana gregaria (see S. gregaria)	during 4965 swarming behaviour in 1873	Bacillus 5873 B. cereus 603, 1621, 2107, 2618
Schistocerca cancellata	wind receptors in 3751	B. coagulans 4895
in Argentina 4426 taxonomy of, Schistocerca paranensis as	Schistocerca nitens nitens clutch size in, effects of presence of males	B. larvae 1624 B. lentimorbus 3161
synonym of 4426	on 3329	B. moritai 1629
Schistocerca gregaria 5446	control of, antifeedants for 662	B. polymyxa 603
adipokinetic hormones in 1792 air resistance of 1784	receptaculum seminis in, release of sperm from 2707	B. popilliae 611, 616, 3161, 3682, 3685, 4813, 6204
coloration in, effects of JH on 1268	Schistocerca paranensis, taxonomy of,	B. sphaericus 1629
control of 1278, 1873, 2316, 5898, 5899, 5900, 5902, 5905, 5917	synonym of S. cancellata 4426 Schistocerca vaga (see S. nitens nitens)	B. thuringiensis 203, 426, 459, 470, 577 587, 594, 603, 611, 619, 627, 668,
aerial spraying for 5901	Schizaphis graminum	1452, 1621, 1626, 1632, 1668, 1699,
antifeedants for 662, 3834	alarm-pheromone analogues in, responses	1706, 2041, 2061, 2107, 2457, 2616,
growth regulators for 2136, 3330 insecticides for 5910, 5911, 5915	to 97 biology of 1920	2625, 2945, 3007, 3075, 3098, 3100, 3155, 3156, 3165, 3169, 3250, 3469,
use of aircraft in 5897	biotype C 2917, 4503	3489, 3532, 3609, 3610, 3684, 3687,
use of satellite surveys in 1323 diatoms on, effects of 2318	control of antifeedants for 4173	3689, 3698, 3890, 3941, 3944, 3978, 4060, 4134, 4140, 4384, 4515, 4613,
digestive enzymes in 43, 4232	insecticides for 670, 1390, 5545, 6153	4652, 4653, 4807, 4813, 5065, 5205,
dispersal of 3573 eggs of, water relations of 2794	food-plants of, effects of rearing diet on preferences for 4503	5245, 5246, 5248, 5495, 5589, 5615, 5626, 5657, 5711, 5725, 5741, 5765,
enzymes in 3261	hyperparasites of, in Texas 2917	5837, 5838, 5839, 5840,
feeding behaviour in, role of palps in 89	hyperparasitised by, Marietta graminicola,	5845, 5846, 5847, 5848, 5851, 5855, 5857,
flight activity in, biochemical changes in flight muscles during 1805	in Texas 3882 in Brazil 1014	5858, 5860, 5951, 5973, 6550, 6609, 6628, 6629, 6632, 6676, 6681, 6685, 669
flight in 2250, 4417, 4418, 4419, 4420	in Egypt 5525	Bacteroides 4464
flight neurones in, regulation of rhythmic output of 239	in Kenya 1390 in Mexico 923, 2306	Chromobacterium miniaceum 2613 Citrobacter 4464
flight regulation in 6072	in Pakistan 1917	Corynebacterium 4037
food-plants of 2319	in Romania 866	Enterobacter 3546
effects on morphology of 3832 not affecting phase 3832	in USA 2917, 3882, 6153 in USSR 1920, 3376, 5545	E. aerogenes 1407 E. cloacae 4464
gut cuticle in, permeability of 5333	mummies of	Erwinia 3546
hemolymph in amino acids in 1212	identifying of 3882 identifying parasites in 3882	E. carotovora 6537 Escherichia coli 42, 1798
clotting of 6066	on barley	Flavobacterium 3546
hydroprene in, effects on coloration of 4960	damage caused by 2890 development of 3372	Fusobacterium 4464 Klebsiella pneumoniae 1407
imaginal ecdysis in 4218, 4219, 6041,	effects of ants on 866	Lactobacillus 3546, 4464
6042	in Kenya 1390	Micrococcus lysodeikticus 1642
immunity in 5231 in Algeria 1323	on grain crops, in Kazakhstan 3376 on range grasses, survival and	Proteus mirabilis 4134, 6479 Pseudomonas 1853, 3546, 4037
in Djibouti 5898	reproduction of 2358	P. aeruginosa 4134
in Ethiopia 1873, 5898 in India 1873, 2318, 5917	on rice, in Caucasus 5545 on sorghum	P. carnea 2613 Salmonella 1160
in Kenya 5898	damage caused by 923, 6153	Serratia marcescens 135, 2907, 6097
in Pakistan 1873, 2316, 2318, 5917 in Saudi Arabia 1873	development of 3372 effects of ants on 866	Streptococcus 3546 S. cremoris 4464
in Somali Democratic Republic 1873,	in Texas 2917	S. faecalis 4134, 5850
5898	on Sorghum halepense, effects of ants on	S. lactis 4464
in Sudan 5898 in Tanzania 5898	866 on wheat	Streptomyces 4895 Xanthomonas 1853
in Uganda 5898	damage caused by 6152	X. corylina 6455
in USSR 2755 juvenile hormones in	development of infestation with 5525 distribution pattern of 5525	Schizoneura ulmi (see Eriosoma ulmi) Schizonotus latus
effects of starvation and feeding on	effects of ants on 866	in USA 550, 6206
1811 effects of temperature on 6288	in Brazil 1014 in Kenya 1390	parasitising, Chrysomela scripta, in
identifying of 56	in Ukraine 1920	Wisconsin 550, 6206 Schizonycha ruficollis
mating in, effects of JH on 1268	varietal preferences of 2306	in India 4501

Schizonycha ruficollis contd.	Scirpophaga incertulas contd.	Scolothrips sexmaculatus
on sugar-cane, in Punjab 4501	on rice contd.	in Egypt 4596
Schizotetranychus celarius	in West Bengal 906, 3910, 6395	in USA 3987, 3994
in Japan 5018	in West Malaysia 322	in almond orchards, in California 3994
life history of 5018	resistance to, genetics of 3913	in strawberry fields, in California 3987
on bamboo, in Japan 5018	varietal preferences of 2376, 2377,	preying on, Aculops lycopersici, in Egypt
spinning behaviour in 1261	3414, 5565	4596
Schizotetranychus nanjingensis	oviposition in 4515	Scolypopa australis
sp. nov., description of 4866	parasites of	descriptions of 3248
in China 4866	in Bangladesh 6425	in Australia 3248
on Phyllostachys, in China 4866	in Karnataka 5549	on Passiflora, in New South Wales 324
chizotetranychus oryzae	in West Bengal 906, 3910, 6395	scolyti, Pyemotes
descriptions of 4520 in Brazil 4520	parasitised by, Tetrastichus schoenobii 2235	scolyticida, Coeloides
on rice, damage caused by 4520		Scolytidae
seasonal abundance of 4520	seasonal abundance of 2900, 3895, 3919, 3972, 4515	control of behaviour-modifying chemicals for
Chizotetranychus pruni (see Eotetranychus	Serratia marcescens in, pathogenicity of	1736
pruni)	2907	insecticides for 3175
chlechtendali, Aculus	Scirpophaga innotata	dispersal of 3583
choenobii, Apanteles	in Australia 6421	food-plant specificity in, geographical
choenobii, Tetrastichus	in Indonesia 321, 3415	variation in 1248
choenobii, Tropobracon	in Pakistan 3972	in Americas 1577
Schoenobius incertulas (see Scirpophaga	in Philippines 892, 3895	in Europe 5757
incertulas)	on rice	in Israel 2079
choenobivorus, Rhaconotus	effects of sowing date on 892	in Pacific region 4724
choofi, Conotrachelus	in Asia 900	in West Malaysia 1095
chrankiae, Acanthoscelides chuetzeella. Dioryctria	in Indonesia 321, 3415 in Pakistan 3972	in eucalypt forests, in Victoria 5763
chultzei, Frankliniella	in Philippines 3895	in pine forests in New Zealand 4875
Schweibea, on Carabidae, in Ontario 136	in Western Australia 6421	in Victoria 5763
ciaridae	parasites of, in Western Australia 6421	in pine wood, in El Salvador 5167
Entomophthora culicis in, in Israel 1126	seasonal abundance of 3895, 3972	interceptions of 1066
in Scolytid tunnels, in France 5186	Scirtothrips aurantii	olfaction in, review 3580
on cucumber, in UK 6508	control of, insecticides for 2974, 5080	on conifers, in France . 3612
on glasshouse crops, in Denmark 782	in South Africa 2974, 5080	on forest trees, in North America 2590
on grapefruit, in Israel 1126	mouthparts in 718	on leaf stalks, in West Malaysia 3459
on mushroom	on Citrus, in South Africa 2974	on mahogany, in Philippines 5184
basidiospore transmission by 6503	on orange, in South Africa 5080	on Pinus, in Italy 5741
in UK 5091 preyed on by, Araneae, in Poland 2819	Scirtothrips citri, in USA 6489 Scirtothrips dorsalis	on Ulmus, in Yugoslavia 3568 outbreaks of 3612
taxonomy of 2161	control of, insecticides for 1446, 1969,	parasitised by, Chalcidoidea, in Lithuania
ciothrips cardamomi	5731, 6553, 6554	5395
control of, insecticides for 6343	in India 1969, 5118, 5468, 6553, 6554	pheromones in, studying of 4628
in China 4867	in Japan 1446, 3056, 5731	predators of, estimating effects of 2559
in India 6343	on Capsicum, in Maharashtra 6554	preyed on by, Holcocephala fusca, in
on Elettaria cardamomum, in Kerala	on Capsicum annuum	Virginia 3350
6343	in Karnataka 6553	traps for 4875
cirpophaga incertulas	in Tamil Nadu 5118	Scolytoidea, in Australia 5144
amino acids in, and in rice 2371	on cashew	Scolytus Correte evention ulmi in transmission of
Beauveria bassiana in, in Orissa 4515	damage caused by 1969 in Karnataka 1969	Ceratocystis ulmi in, transmission of 6600
biology of 2233 control of 5032	on grapevine, in Japan 1446	on Ulmus, in Netherlands 532
biological 2904, 4515	on tea	Pyrochroa coccinea not preying on 1084
insecticides for 335, 2376, 2379, 3901,	in Honshu 5731	Scolytus ensifer
4509, 5035	in Japan 3056	in Poland 4616
development in 4515	preyed on by, Anthocoridae, in India	parasitised by, Pyemotes scolyti, in Polan
Enterobacter aerogenes in, in Orissa	5468	4616
1407	tomato spotted wilt virus in, transmission	Scolytus laevis
enzymes in 2371	of 2020	biology of 6600
in Bangladesh 2376, 2901, 5032, 6425	Scirtothrips manihoti	in Denmark 566, 6600
in China 918 in India 335, 906, 1405, 1407, 2377,	in Brazil 2498 on cassava, in Brazil 2498	on <i>Ulmus</i> , in Denmark 6600 on <i>Ulmus glabra</i> , in Denmark 566
2379, 2900, 2905, 3404, 3910, 3919,	population dynamics of 2498	Scolytus mali
3930, 4515, 5035, 5549, 5559, 5565,	scitula, Eublemma	control of 2791
6395	scitulus, Apoderus	in USSR 2791
in Indonesia 321, 3415	Sclerodermus, biological control using	Scolytus multistriatus
in Malaysia 322	3097	attractants for 2055, 4924
in Pakistan 3972	Sclerodermus turkmenicus	factors affecting responses to 5152
in Philippines 323, 3895, 3913, 4509	biological control using 3097	behavioural responses to food-plant
in Spain 3388	in USSR 3097	stimuli in 3805
in Thailand 325, 3414	Sclerotium oryzae, in, rice, associated with	Ceratocystis ulmi in, transmission of 3087, 5209, 6610
Klebsiella pneumoniae in, in Orissa 1407 nuclear polyhedrosis virus in, in India	Nilaparvata lugens 6393 Scolia quadripustulata	control of 5209
2905	in Sri Lanka 1175	insecticides for 6610
on Oryza, resistance to 1398	parasitising, Oryctes rhinoceros, in Sri	trap trees for 4924
on rice	Lanka 1175	dispersal of 521
damage caused by 1405, 3930, 4515,	Scoliidae, in Sri Lanka 1175	in Belgium 3824
5032	Scolobatinae	in Denmark 6600
effects of fertilizers on 3404	in Lithuania 5389	in Netherlands 533
in Andhra Pradesh 2379	parasitising, Tenthredinidae, in Europe	in Poland 4616
in Asia 900	5773 Seelen ageelig parallelya	in UK 4626
in Bangladesh 2901, 6425	Scoloposcelis parallelus	in USA 521, 2055, 4924, 5152, 5209, 6207
in Bihar 2900 in China 918	biology of 5468 descriptions of 5468	in Yugoslavia 3568
in Indonesia 321, 3415	in India 5468	landing times in
in Karnataka 5549	preying on, Thysanoptera, in India 5468	effects of substrate on 2055
in Madhya Pradesh 3919	Scolopostethus, in strawberry fields, in	not affected by lindane 2055
in Orissa 1407	Sweden 5584	life-cycle of 5209
in Pakistan 3972	Scolothrips, in cotton fields, effects of	on Ulmus
in Philippines 323, 3895, 4509	insecticides on 4384	in Belgium 3824
in Spain 3388	Scolothrips longicornis	in Denmark 6600
in Tamil Nadu 335, 5035	in China 315	in Kansas 5209
in Thailand 325	in maize fields, in China 315	in Netherlands 533

```
Scotia spinifera (see Agrotis spinifera)
                                                                                                                                                                                                                     Scymnus nubilus contd.
 Scolvtus multistriatus contd.
     on Ulmus contd.
in New York 4924
in Wisconsin 4924
in Yugoslavia 3568
                                                                                                                                                                                                                          preying on, Contarinia sorghicola, in
Karnataka 3416
                                                                                                           Scotinophara lurida
                                                                                                                in India 798
                                                                                                                                                                                                                     Scymnus pullus, preying on, Adelges piceae, and biological control using, in British
Columbia 6636
                                                                                                                in Taiwan 6376
                                                                                                                on rice, damage caused by 6376
      on Ulmus americana, landing time of
                                                                                                           Scotinophara obscura
             2055
                                                                                                                in Indonesia 3415
                                                                                                                                                                                                                     Scymnus quadrillum
     on Ulmus carpinifolia, mites associated
                                                                                                                on rice, in Indonesia 3415
                                                                                                                                                                                                                          descriptions of 1884
      with 4626
parasites of, in Yugoslavia 3568
                                                                                                           Scotogramma trifolii (see Discestra trifolii)
                                                                                                                                                                                                                          in Taiwan 1884
                                                                                                                                                                                                                     Scymnus subvillosus
in USSR 3376
preying on, grain aphids, in Kazakhstan
3376
                                                                                                          scripta, Chrysomela
scripta, Sphaerophoria
Scrobipalpopsis, keys to 4728
Scrobipalpopsis vergarai
     parasitised by, Pyemotes scolyti, in Poland
      traps for 521, 6207
 Scolytus pygmaeus
in Netherlands 533
in Poland 4616
                                                                                                                                                                                                                     Scymnus syriacus
                                                                                                                sp. nov., description of 4728
                                                                                                                                                                                                                          preying on, Saissetia oleae, in Libya 5083
                                                                                                                                                                                                                          in Libya 5083
                                                                                                                in Colombia 4728
                                                                                                                on Baccharis macrantha, in Colombia
     in Yugoslavia 3568
                                                                                                                       4728
      on Ulmus
                                                                                                          scrupulosa, Teleonemia
scudderiana, Epiblema
sculpturatus, Anotylus (Oxytelus)
          in Netherlands 533
in Yugoslavia 3568
                                                                                                                                                                                                                     Scyphophorus interstitialis, biology of 230
                                                                                                                                                                                                                     Scypnophorus interstitials, biology of 250 scyphus, Amblyseius
SD-41706 (see Fenpropathrin)
Sea buckthorn (see Hippophae rhamnoides)
Secale cereale (see Rye)
Sechium edule, Tetranychus ludeni on, in
Karnataka 994
secundaria, Brachymeria
Sedoheptulose (see D-altro-2-Heptulose)
     on Ulmus campestris, in Poland 4616 parasites of, in Yugoslavia 3568
                                                                                                           sculpturatus, Oxytelus (see Anotylus
     parasitised by, Pyemotes scolyti, in Poland 4616
                                                                                                                  sculpturatus)
                                                                                                          scutellana, Epiblema
scutellare, Xanthogramma (see Ischiodon
scutellaris)
4616
Scolytus quadrispinosus
food-plant visitation patterns in 2052
in USA 2052
Scolytus rugulosus
control of 2791
in USSR 2791
scolytus, Scolytus
Scolytus scolytus
attractants for 1096, 6602
behavioural responses to food-plant
                                                                                                          scutellaris, Apanteles
scutellaris, Clavigralla
scutellaris, Coccophagus
scutellaris, Ischiodon (Xanthogramma)
scutellaris, Lipolexis
scutellaris, Micronecta
scutellata, Blepharipa (Sturmia)
scutellata, Oides
                                                                                                                                                                                                                          Callirhopalus bifasciatus on 5135
Heliococcus slavonicus on, in Poland
                                                                                                                                                                                                                      Seeding rate (see Sowing rate)
     behavioural responses to food-plant
stimuli in 3805
                                                                                                                                                                                                                      Seeds (stored)
      stimuli in 3805
biology of 6600
Ceratocystis ulmi in, transmission of
                                                                                                                                                                                                                          insect pests of, detecting of 5251 mites in, in Georgia (USSR) 5803 pest control in 6182
                                                                                                           scutellata, Sturmia (see Blepharipa
                                                                                                                  scutellata)
                                                                                                           scutellatus, Gonipterus
scutellatus, Monochamus
                                                                                                                                                                                                                     Plodia interpunctella in, in USSR 3128
segetum, Agrotis (Scotia)
segetum, Scotia (see Agrotis segetum)
selenaria, Boarmia
Selenates, in Lolium, effects on Inopus
rubriceps of 1947
             661Ŏ
      Coleoptera in galleries of, in Netherlands
                                                                                                           Scutelleridae
                                                                                                          parasitised by, Ooencyrtus spp.
Scutelleroidea, in Quebec 5408
Scutellista cyanea
in Greece 5640
in India 6577
in Libya 3508
parasitising
            532
      control of
          biological 531
insecticides for 6610
                                                                                                                                                                                                                     Selenophorus, preying on, Surattha
indentella, in Kansas 1943
Selenops radiatus
in Nigeria 6514
preying on, Maruca testulalis, in Nigeria
6514
      gut flora in, developmental changes in
             2750
     2750
in Belgium 3824
in Denmark 6600
in Netherlands 532, 533
in Poland 4616
in UK 531, 1096, 3095, 4626, 6602
in Yugoslavia 3568
4-methyl-3-heptanol in, responses to stereoisomers of 1801
on Ulmus
                                                                                                                parasitising
                                                                                                                    Cerococcus ornatus, in Tamil Nadu
6577
                                                                                                                                                                                                                     Selenothrips rubrocinctus
biology of 5132
in Ivory Coast 5132
on cacao, damage caused by 5132
selgae, Stomorhina
sellnicki, Bakerdania (Pygmephorus)
sellnicki, Pygmephorus (see Bakerdania
sellnicki)
                                                                                                                     Saissetia oleae
                                                                                                          Saissetta oleae
in Greece 5640
in Libya 3508
scuticarinatus, Trissolcus
scutigera, Pectinophora
scutosa, Protoschinia
Scydmaenidae, in UK 4732
Scymnillini, in West Indies 249
Scymniae, Perilitus coccinellae not
narasitisme 1886
     on Ulmus
           in Belgium 3824
in Denmark 6600
in England 531
           in Netherlands 532, 533
in Yugoslavia 3568
                                                                                                                                                                                                                      Sem (see Lablab purpureus)
Sematuridae, taxonomy of 5295
                                                                                                                  parasitising 1886
      on Ulmus carpinifolia, mites associated
                                                                                                                                                                                                                      Semiadalia notata
                                                                                                           Scymnus
                                                                                                                                                                                                                          biology of 791
descriptions of 791
distribution of 791
in USSR 3376
             with 4626
                                                                                                                in Taiwan 1884, 3316 in cotton fields, effects of insecticides on
     on Ulmus procera, in England 1096
parasites of, in Yugoslavia 3568
parasitised by, Pyemotes scolyti, in Poland
                                                                                                                        1042
                                                                                                          preying on
Fiorinia theae, in Assam 1057
Psylla pyri, in France 5607
Scymnus aeneipennis, taxonomy of, transferred to Zagloba 249
Scymnus biverrucatus (see Nephus bipunctatus)
Scymnus hullei
                                                                                                                                                                                                                          preying on, grain aphids, in Kazakhstan 3376
             4616
      pheromones in 2652
preyed on by, Odinia meijerei, in England
3095
                                                                                                                                                                                                                    Semiadalia undecimnotata
biology of 791
descriptions of 791
distribution of 791
feeding behaviour in, effects of prey
density on 1882
preying on, Myzus persicae 1882
semifasciata, Dichocrocis punctiferalis
semillavidus, Anastatus
semilunaris, Tetraleurodes
seminumis, Tetraleurodes
seminumis, Tetraleurodes
seminochemicals, insect control using, need
for biological information in 1739
semipunctatum, Graphosoma
                                                                                                                                                                                                                      Semiadalia undecimnotata
 Scolytus ventralis
in USA 2065, 2586, 5216, 6635
on Abies, fungi associated with 2065
                                                                                                           Scymnus brullei
in USA 5061
     on Abies grandis
damage caused by, model 6635
in Oregon 5216
resistance to 2586
                                                                                                                preying on
                                                                                                                     Eriosoma americanum, in Pennsylvania
                                                                                                                            5061
      Trichosporium symbioticum in,
transmission of 2585
                                                                                                                      Tetraneura ulmi, in Pennsylvania 5061
                                                                                                           Scymnus cervicalis
biology of 5061
in USA 5061
transmission of 2585
Scopolamine, in Drosophila melanogaster, toxicity of 6699
Scopoletin (see 2H-1-Benzopyran-2-one, 7-hydroxy-6-methoxy-)
Scopolin (see 2H-1-Benzopyran-2-one, 7-(β-D-glucopyranosyloxy)-6-methoxy-)
Scopula coenosaria (see S. luridata)
Scopula luridata
in Egypt 2500
on tomato, in Egypt 2500
Scorpiones
                                                                                                                preying on, Viteus vitifoliae, in
Pennsylvania 5061
                                                                                                                                                                                                                      semipunctatum, Graphosoma
                                                                                                                                                                                                                      semotus, Habrocytus (see Pteromalus
                                                                                                          Scymnus loewi
in Mexico 1653
in USA 4603
in maize fields, in Mexico 1653
preying on, Heliothis virescens, in Texas
                                                                                                                                                                                                                      semotus, Pteromalus (Habrocytus)
                                                                                                                                                                                                                     sempiternus, Anastrus
Semudobia, on Betula, in Netherlands 519
seneciella, Pegohylemyia
Senecio jacobaea
Arctiidae on, uptake of pyrrolizidine
alkaloids by 5450
control of, biological 5945
Longitarsus jacobaeae on, and biological
control using, in Prince Edward Islan
2792
                                                                                                                                                                                                                      sempiternus, Anastrus
                                                                                                                       4603
                                                                                                                seasonal abundance of 1653
 Scorpiones
in Kuwait 1837
preying on, Achatina fulica 4983
Scotia (see Agrotis)
Scotia insilon (see Agrotis ipsilon)
Scotia segetum (see Agrotis segetum)
                                                                                                           Scymnus marginicollis
in Iraq 3451
in lucerne fields, in Iraq 3451
                                                                                                           Scymnus nubilus
in India 3416
```

serius, Eretmocerus Sesamia inferens contd. Pegohylemyia seneciella on, and biological control using, in New Zealand 3355 population dynamics of 5500 Tyria jacobaeae on and biological control using in New Zealand 3355 in Prince Edward Island 2792 in Quebec 4483 in Netherlands 5500 serius, Eretmocerus serotinae, Cecidomyia (see Contarinia creasiserotinae) Serotonin (see 1H-Indol-5-ol, 3-(2- in Indonesia 3415 in Prince Edward Island 2792 serratal, Drosophila in Pakistan 3972 in Thailand 325 on sugar-cane, in Japan control of, antibiotics for 6097	
control using, in New Zealand 3\(\frac{3}{2}\)55	
population dynamics of 5500 Serotonin (see 1H-Indol-5-ol, 3-(2- in Indonesia 3415 Tyria jacobaeae on aminoethyl)-) in Orissa 2907 and biological control using serpentinus, Conotrachelus in Pakistan 3972 in New Zealand 3355 in Prince Edward Island 2792 in Quebec 4483 in Netherlands 5500 Serratia marcescens on sugar-cane, in Japan on the prince for 6097 control of, antibiotics for 6097	
Tyria jacobaeae on aminoethyl)-) in Orissa 2907 and biological control using serpentinus, Conotrachelus in Pakistan 3972 in New Zealand 3355 serrata, Drosophila in Philippines 3895 in Prince Edward Island 2792 serratella, Coleophora in Thailand 325 in Quebec 4483 Serratia marcescens in Netherlands 5500 control of, antibiotics for 6097 oviposition in 4515	
and biological control using serpentinus, Conotrachelus in Pakistan 3972 in New Zealand 3355 serrata, Drosophila in Philippines 3895 in Prince Edward Island 2792 serratella, Coleophora in Thailand 325 in Quebec 4483 Serratia marcescens on sugar-cane, in Japan in Netherlands 5500 control of, antibiotics for 6097 oviposition in 4515	
in New Zealand 3355 in Prince Edward Island 2792 in Quebec 4483 in New Zealand 3355 serrata, Drosophila serratelle, Coleophora in Quebec 4483 serratia marcescens on sugar-cane, in Japan in Netherlands 5500 control of, antibiotics for 6097 oviposition in 4515	
in Prince Edward Island 2792 serratella, Coleophora in Thailand 325 in Quebec 4483 Serratia marcescens on sugar-cane, in Japan in Netherlands 5500 control of, antibiotics for 6097 oviposition in 4515	
in Quebec 4483 Serratia marcescens on sugar-cane, in Japan in Netherlands 5500 control of, antibiotics for 6097 oviposition in 4515	
in Netherlands 5500 control of, antibiotics for 6097 oviposition in 4515	4000
	1385
enecionine, in Senecio jacobaea, uptake by in Parasitorhabditis spp. in	
Arctiidae of 5450 Agrotis segetum, pathogenicity of seasonal abundance of	1385, 3895, 3972,
eneciphylline, in Senecio jacobaea, uptake 6097 4515	. 0
by Arctiidae of 5450 Chilo auricilius, pathogenicity of 2907 Serratia marcescens in Serrati	in Orissa 2907
enegal Cnaphalocrocis medinalis, pathogenicity Sesamia nonagrioides Caryedon serratus in, in groundnuts of 2907 distribution map for 3:	202
	303
Branching the state of the stat	
WW AL ALL AND ADDRESS OF THE ADDRESS	,
locust control in 5899 Sesamia inferens, in Orissa 2907 in Spain 3388	
Raghuva albipunctella in, on millet 316 Trochometridium tribulatum feeding on on rice, in Spain 3388	
rice in, pest control on 693 135 on sugar-cane, in Iran	
Sylepta derogata in, natural enemies of serratus, Caryedon parasitised by, mites, in	
258 serratus, Paragus proteins in, development	tal changes in
enegalensis, Oedaleus serricorne, Lasioderma 4787	
ennius serrulata, Cyclophora nanaria sugars in, developmenta	l changes in
on Cassia, coevolution of 5750 sertifer, Neodiprion 4787	
taxonomy of, food-plant preferences as servadeii, Tetrastichus Sesamia nonagrioides bota	
characters for 6626 Serviformica control of, insecticides f	
ennius morosus, on Cassia durangensis enzyme gene variability in 4968 in Ghana 3888, 4497	
1584 polygyny in 4429 on maize, damage cause	ed by 3888
entis, Urentius servula, Antheua on sugar-cane, in Ghana	
coulis, Inostemma (Isostasius) servus, Euschistus parasites of, in Ghana	
coulis, Isostasius (see Inostemma seoulis) Sesame (Sesamum indicum) Sesamia penniseti	
parata, Carcelia Amsacta moorei on, in Rajasthan 5101 in Ghana 4497	
parata, Leucania (see Mythimna separata) Antigastra catalaunalis on on sugar-cane, in Ghana	a 4497
parata, Mythimna (Leucania; Pseudaletia) in Bihar 4055 parasites of, in Ghana	
parata, Pseudaletia (see Mythimna in Nigeria 1032 sesamiae, Apanteles	1127
separata) Heliothis fletcheri on, in Sudan 799 sesamiae, Descampsina	
ptemiasciata, Cyrtacanthacris Spilostethus pandurus on, in India 3034 Sesamol, epoxygeranyl- (s	oe 13.
(Nomadacris) Urophora jaceana on, in Turkey 1311 Benzodioxole, 5-[[5-(3,	
splemfasciata, Nomadacris (see Sesame fields, parasitic insects in, in Andhra dimethyloxiranyl)-3-ne	
Cyrtacanthacris septemfasciata) Pradesh 6310 Pradesh 6310 pentenylloxyl-)	July 1-2-
eptempunctata, Coccinella Sesamia, on rice, in Bangladesh 4495 Sesamum indicum (see Ses	noma)
	same)
	Tdia 6460
ptendecula, Magicicada botanephaga) Caliothrips indicus on, i	
ptentrionalis, Croesus Sesamia calamistis Eudiagogus spp. on, in	
eptentrionis, Lema (see Oulema in Ghana 4497 Sesbania macrocarpa, Eucl	
septentrionis) in South Africa 1382 rosenschoeldi on, in M	
eptentrionis, Oulema (Lema) on sugar-cane Seseli dichotomum, Dysap	ohis seselu on, in
eptobasidium, associated with Andaspis in Ghana 4497 Crimea 5182	
numerata, in Papua New Guinea 6583 in South Africa 1382 Seseli libanotis, insecticida	al activity of oil
equoiae, Synanthedon parasites of, in Ghana 4497 from 6173	
eriatus, Psallus (Pseudatomoscelis) Sesamia cretica seselii, Dysaphis	
eriatus, Pseudatomoscelis (see Psallus diapause in 761 Sesiidae, in California 48	
seriatus) growth regulators in, effects of 761 Sesioidea, food preferences	s in, evolution of
ericata, Lucilia hemolymph in 4372 5434	
ericea, Prasoidea in Egypt 2354, 3371 Sesquiterpenes and sesquiterpene	terpenoids, in
ericeicornis, Sympiesis in Iran 1380 Ancistrotermes cavitho	orax defensive
	w mottle virus in,
riceiventré, Tetramorium in Libya 2368 secretion 667 Priceum, Priobium on maize Sesselia pusilla, rice yellov	
riceiventré, Tetramorium in Libya 2368 secretion 667 riceum, Priobium on maize Sesselia pusilla, rice yellov riceus, Camponotus in Egypt 3371 transmission of 5545	
priceiventre, Tetramorium in Libya 2368 secretion 667 priceum, Priobium on maize Sesselia pusilla, rice yellov priceus, Camponotus in Egypt 3371 transmission of 5545 priceus, Spermophagus in Libya 2368 sessile, Tapinoma	
riceiventre, Tetramorium in Libya 2368 secretion 667 riceum, Priobium on maize Sesselia pusilla, rice yellov riceus, Camponotus in Egypt 3371 transmission of 5545 riceus, Spermophagus in Libya 2368 sessile, Tapinoma ericins on sugar-cane Setaria, Hysteroneura seta	riae on, in Taiwan
riceiventre, Tetramorium in Libya 2368 secretion 667 riceum, Priobium on maize Sesselia pusilla, rice yellov riceus, Camponotus in Egypt 3371 transmission of 5545 riceus, Spermophagus in Libya 2368 sessile, Tapinoma riceis on sugar-cane Setaria, Hysteroneura seta in Bombyx mori, lectin receptor in 6335 in Egypt 2354 secretion 667 Sesselia pusilla, rice yellov transmission of 5545 sessile, Tapinoma Setaria, Hysteroneura seta	nriae on, in Taiwan
riceus, Camponotus riceus, Spermophagus ricinis Bombyx mori, lectin receptor in 6335 in Libya 2368 on maize on sugar-cane	n <i>riae</i> on, in Taiwan
in Libya 2368 secretion 667 sericeium, Priobium on maize Sesselia pusilla, rice yellov transmission of 5545 sericeus, Spermophagus in Libya 2368 sessile, Tapinoma Setaria, Hysteroneura seta in Bombyx mori, lectin receptor in 6335 in Egypt 2354 3316 in Formica, lectin receptor in 6335 in Iran 1380 Setaria viridis	
riceiventre, Tetramorium in Libya 2368 on maize on sugar-cane on Bombyx mori, lectin receptor in 6335 on Sugar-cane on Bombyx mori, lectin receptor in 6335 on Sugar-cane on Sugar-cane on Bombyx mori, lectin receptor in 6335 on Sugar-cane on Bombyx mori, lectin receptor in 6335 on Sugar-cane on Sugar-cane on Bombyx mori, lectin receptor in 6335 on Sugar-cane on Setaria, Hysteroneura seta in Formica, lectin receptor in 6335 on Sugar-cane on Setaria, Hysteroneura seta in Formica, lectin receptor in 6335 on Sugar-cane on Sugar-cane on Setaria, Hysteroneura seta in Formica, lectin receptor in 6335 on Sugar-cane on Setaria, Hysteroneura seta in Formica, lectin receptor in 6335 on Sugar-cane on Setaria, Hysteroneura seta in Formica, lectin receptor in 6335 on Sugar-cane on Setaria, Hysteroneura seta on Setaria, Hysteroneura seta on Setaria viridis oricothrips occipitalis, on Vigna	in China 4866
in Libya 2368 secretion 667 Sesselia pusilla, rice yellov transmission of 5545 sericeus, Spermophagus ericins in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Iran 1380 sericothrips occipitalis, on Vigna unguiculata, resistance to 4585 in Libya 2368 sescretion 667 Sesselia pusilla, rice yellov transmission of 5545 sessile, Tapinoma Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, unguiculata, resistance to 4585 thuringiensis on 5860 O. pratensis on, in Chin	in China 4866
in Libya 2368 secretion 667 Sessella pusilla, rice yellov transmission of 5545 sericeus, Spermophagus ericeus, Spermophagus ericins in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Iran 1380 sericothrips occipitalis, on Vigna unguiculata, resistance to 4585 parasitised by secretic feets of Bacillus thuringiensis on 5860 parasitised by secretic feets of Bacillus on Sugar-cane in Egypt 2334 in Iran 1380 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura	in China 4866 a 4866
riceiventre, Tetramorium in Libya 2368 on maize on sugar-cane	in China 4866 a 4866
in Libya 2368 on maize on sugar-cane on s	in China 4866 ia 4866 pistaciae)
in Libya 2368 on maize oriceus, Priobium on maize oriceus, Spermophagus ericins in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 ericothrips occipitalis, on Vigna unguiculata, resistance to 4585 ericothrips variabilis in USA 1511, 6195 on soyabean assessing infestations of 1511 in Libya 2368 on sugar-cane in Egypt 2354 in Iran 1380 parasities of, effects of Bacillus thuringiensis on 5860 parasities of by Bracon brevicornis 5860 mites, in Iran 1380 Telenomus spp., in Egypt 2354 secretion 667 Sesselia pusilla, rice yellov transmission of 5545 sessile, Tapinoma Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta grapha secretion 667 Sesselia pusilla, rice yellov transmission of 5545 sessile, Tapinoma Setaria, Hysteroneura seta Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta grapha secretion 667 Sesselia pusilla, rice yellov transmission of 5545 sessile, Tapinoma Setaria, Hysteroneura seta Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta grapha setaria, Hysteroneura setaria, Hysteroneura seta grapha setaria, Hysteroneura setaria, Hysteroneura setaria, Hysteroneura setaria, Hysteroneura seta grapha setaria, Hysteroneura setaria, Hysteroneura seta grapha setaria, Hysteroneura s	in China 4866 ia 4866 . pistaciae)
in Libya 2368 on maize officeus, Camponotus officeu	in China 4866 ia 4866 . pistaciae)
criceiventre, Tetramorium criceum, Priobium criceus, Camponotus criceus, Spermophagus cricias in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 cricothrips occipitalis, on Vigna unguiculata, resistance to 4585 cricothrips variabilis in USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in in Libya 2368 on maize in Egypt 3371 in Libya 2368 on sugar-cane in Egypt 2354 in Iran 1380 parasites of, effects of Bacillus thuringiensis on 5860 mites, in Iran 1380 Telenomus spp., in Egypt 2354 preyed on by, Orius insidiosus, in in Libya 2368 on maize secretion 667 Sesselia pusilla, rice yellov transmission of 5545 sessile, Tapinoma Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura setigera, Eurytoma (see Esetigerus, Pediobius Telenomus spp., in Egypt 2354 predators of, in Egypt 2354 predators of, in Egypt 2354	in China 4866 ta 4866 tip pistaciae) by, thoseae 2169
in Libya 2368 on maize on sugar-cane on sugar-ca	in China 4866 ta 4866 tip pistaciae) by, thoseae 2169
in Libya 2368 on maize on maize on secretion 667 Sesselia pusilla, rice yellow transmission of 5545 sessile, Tapinoma sericins on sugar-cane o	in China 4866 ta 4866 tip pistaciae) by, thoseae 2169
in Libya 2368 on maize on maize on maize on secretion 667 Sesselia pusilla, rice yellow transmission of 5545 sessile, Tapinoma sericitis on sugar-cane on su	in China 4866 ta 4866 tip pistaciae) by, thoseae 2169
in Libya 2368 on maize on sugar-cane on s	in China 4866 a 4866 by, hoseae 2169 h lindane)
in Libya 2368 on maize officeus, Camponotus officeus, Spermophagus ericieus, Spermophagus ericieus, Spermophagus ericieus, Spermophagus ericieus, Spermophagus ericins in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 ericothrips occipitalis, on Vigna unguiculata, resistance to 4585 ericothrips variabilis in USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 ericulture in Karnataka 4183 in Mauritius 1171 in Libya 2368 on maize in Egypt 3371 in Libya 2368 on sugar-cane in Egypt 2354 in Iran 1380 parasities of, effects of Bacillus thuringiensis on 5860 parasities of bereicornis 5860 mites, in Iran 1380 setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura seta 3316 Setaria, Hysteroneura seta 331	in China 4866 a 4866 by, hoseae 2169 h lindane)
in Libya 2368 on maize officeus, Camponotus in Egypt 3371 in Libya 2368 on sugar-cane in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Isan 1380 on sugar-cane in Egypt 2354 in Iran 1380 parasitise of, effects of Bacillus in USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 ericulture in Karnataka 4183 in Mauritius 1171 in Sarawak 2651 in Libya 2368 on maize in Libya 2368 on maize in Egypt 3371 in Libya 2368 on sugar-cane in Egypt 2354 in Iran 1380 Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura setigera, Eurytoma (see Estigera, Eurytoma (see Estigera, Phytobia Setosa, Phytobia Sevinol (see Carbaryl) Sevinol (see Carbaryl) Sex pheromones Acrolepia alliella 2692 Adoxophyes 1730	in China 4866 a 4866 by, hoseae 2169 h lindane)
in Libya 2368 on maize on sugar-cane on sugar-ca	in China 4866 a 4866 by, hoseae 2169 h lindane)
in Libya 2368 on maize riceus, Camponotus riceus, Spermophagus ericins in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 ericothrips occipitalis, on Vigna unguiculata, resistance to 4585 ericothrips variabilis in USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 ericulture in Karnataka 4183 in Mauritius 1171 in Sarawak 2651 in Mauritius 1171 in Sarawak 2651 review 5432 ricus, Ceratocapsus in Libya 2368 on maize in Libya 2368 on sugar-cane in Egypt 2354 sessile, Tapinoma Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. Oratensis on, in Chin setariae, Hysteroneura setigera, Eurytoma (see E setigerus, Pediobius Setora nitens, parasitised t Trichogrammatoidea ti Sevinol (see Carbaryl) Sevin (see Carbaryl) Sevin (see Carbaryl) Sevin (see Carbaryl) Sex pheromones Acrolepia alliella 2692 Adoxophyes 1730 A. orana 739 Agrotis fucosa 4835	in China 4866 a 4866 by, hoseae 2169 h lindane)
in Libya 2368 on maize on sugar-cane on suga	in China 4866 in 4866 in pistaciae) by, hoseae 2169 th lindane)
sercetiventre, Tetramorium riceum, Priobium sericeus, Camponotus in Egypt 3371 in Libya 2368 on maize in Egypt 3371 in Libya 2368 on sugar-cane in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Iran 1380 rericothrips occipitalis, on Vigna unquiculata, resistance to 4585 ericothrips variabilis in USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 ericulture in Karnataka 4183 in Mauritius 1171 ericulture in Karnataka 4183 in Mauritius 1171 in Sarawak 2651 review 5432 ricus, Ceratocapsus Serine in Oxycarenus hyalinipennis feces 3748 in Libya 2368 on maize in Egypt 3371 in Libya 2368 on sugar-cane in Egypt 2354 sessile, Tapinoma Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura setigera, Eurytoma (see Estigeras, Pediobius Setigera, Eurytoma (see Estigera, Eurytoma (see Estigeras, Phytobia Sevidol (see Carbaryl) Sevin (see Carbaryl) S	in China 4866 in Alexandria 4866 in pistaciae) by, thoseae 2169 in lindane)
sercetiventre, Tetramorium priceus, Priobium priceus, Spermophagus ericins in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 ericothrips occipitalis, on Vigna unguiculata, resistance to 4585 ericothrips variabilis in USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 ericulture in Karnataka 4183 in Mauritius 1171 in Sarawak 2651 review 5432 ricus, Ceratocapsus Serine in Libya 2368 on sugar-cane in Egypt 2354 in Iran 1380 parasities of, effects of Bacillus thuringiensis on 5860 parasities of bericornis 5860 mites, in Iran 1380 Telenomus spp., in Egypt 2354 predators of, in Egypt 2354 Sessile, Tapinoma Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura setigera, Eurytoma (see E setigerus, Pediobius Setora nitens, parasitised t Trichogrammatoidea ti setosa, Phytobia Sevino (see Carbaryl) Sevin (s	in China 4866 in Associate) by, hoseae 2169 h lindane)
riceiventre, Tetramorium riceum, Priobium riceus, Camponotus riceus, Spermophagus ericins in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Formica, lectin receptor in 6335 ericothrips occipitalis, on Vigna unguiculata, resistance to 4585 ericothrips variabilis in USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 ericulture in Karnataka 4183 in Karnataka 4183 in Karnataka 4183 in Karnataka 2651 review 5432	in China 4866 in 2 pistaciae) by, hoseae 2169 th lindane)
sericeiventre, Tetramorium in Libya 2368 on maize in Egypt 3371 in Libya 2368 on sugar-cane in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Iran 1380 parasitise of, effects of Bacillus thuringiensis on 5860 parasitised by Bracon brevicornis 5860 mites, in Iran 1380 Telenomus spp., in Egypt 2354 population dynamics of 2354 predators of, in Egypt 2354 population dynamics of 2354 predators of, in Egypt 2354 Sesamia inferens control of biological 329, 2904, 4515 in Sarawak 2651 review 5432 ricus, Ceratocapsus in Mauritius 1171 tim India 2905, 2907, 3930, 4515, 5559 in Indonesia 3415 in Japan 1385 in Pakistan 3972 in Philippines 3895 in Thailand 325 in Spodoptera littoralis, effects of in Spodoptera littoralis eff	in China 4866 in 2 pistaciae) by, hoseae 2169 th lindane)
riceiventre, Tetramorium riceum, Priobium riceus, Camponotus riceus, Spermophagus riceus, Spermophagus rin Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 reicothrips occipitalis, on Vigna unguiculata, resistance to 4585 rin USA 1511, 6195 on soyabean assessing infestations of 1511 distribution pattern of 1511, 6195 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 riculture in Kanataka 4183 in Mauritius 1171 in Sarawak 2651 review 5432 ricus, Ceratocapsus Serine in Oxycarenus hyalinipennis feces 3748 in Spodoptera littoralis, effects of in Spodoptera littoralis hemolymph, not affected by DDT 3818 in Libya 2368 on maize in Egypt 2354 sessile praining transmission of 5545 sessile, Tapinoma Setaria, Hysteroneura seta 3316 Setaria viridis Oligonychus indicus on, O. pratensis on, in Chin setariae, Hysteroneura setigera, Eurytoma (see E setigera, Pediobius Setora nitens, parasitised to Trichogrammatoidea ti setosa, Phytobia Sevimol (see Carbaryl) Sevimol (see Carbaryl) Sevimol (see Carbaryl) Sevimol (see Carbaryl) Sevin India 2905, 2907, 3930, 4515, 5559 in India 2905, 2907, 3930, 4515, 5559 in Pakistan 3972 in Philippines 3895 in Taland 325 A. citrina 4002	in China 4866 in 4866 in pistaciae) by, thoseae 2169 in lindane) 205, 4764, 5421 3740 304, 6731
in Libya 2368 on maize in Egypt 3371 in Libya 2368 on sugar-cane in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Iran 1380 parasites of, effects of Bacillus thuringiensis on 5860 mites, in Iran 1380 Telenomus spp., in Egypt 2354 preyed on by, Orius insidiosus, in Kentucky 6195 seasonal abundance of 1511 circulture in Karnataka 4183 in Mauritius 1171 in Karnataka 4183 in Mauritius 1171 in Sarawak 2651 review 5432 receives 5432 review 5432 receives 5432	in China 4866 in Pistaciae) by, hoseae 2169 h lindane) 205, 4764, 5421 6740 14, 6731 632
in Libya 2368 on maize riceus, Amponotus in Egypt 3371 in Libya 2368 on sugar-cane in Bombyx mori, lectin receptor in 6335 in Formica, lectin receptor in 6335 in Iran 1380 parasitised of bacillus thuringiensis on 5860 parasitised by Bracon brevicornis 5860 mites, in Iran 1380 Telenomus spp., in Egypt 2354 population dynamics of 2354 predators of, in Egypt 2354 Sesamia inferens control of biological 329, 2904, 4515 in Karnataka 4183 in Mauritius 1171 in Sarawak 2651 review 5432 ricus, Ceratocapsus Serine in Oxycarenus hyalinipennis feces 3748 in Spodoptera littoralis, effects of in Spodoptera littoralis, effects of in Spodoptera littoralis hemolymph, not affected by DDT 3818 in Libya 2368 on maize in Egypt 2354 thuringiensis on 5860 Setaria, Hysteroneura seta 3316 Setaria, Hysteroneura seta 3316 Setaria, Hysteroneura setigerus, Pediobius 10 lingius on, Oparasitised by 254 parasitised of secillus thuringiensis on 5860 parasitised for 5860 In Egypt 2354 parasitised for 2354 population dynamics of 2354 predators of, in Egypt 2354 population dynamics of 2354 predators of, in Egypt 2354 population dynamics of 2354 predators of, in Egypt 2354 Setaria, Hysteroneura seta 3316 Setaria, Hysteroneura setigerus, Pediobius Secigerus, Pediobius Secigerus, Pediobius Secigerus, Pediobius Secimon inferens Control of biological 329, 2904, 4515 in Bangladesh 2901 A. orana 739 Agrotis fucosa 4835 A. ipsilon 2691 Antheraea pernyi 2705 Anthonomus gradus of Arcelepia a	in China 4866 in Pistaciae) by, hoseae 2169 h lindane) 205, 4764, 5421 6740 14, 6731 632

Sex pheromones contd.

Busseola fusca 4720	sexguttella)	siccifolia, Coleophora (Systrophoeca)
Callosobruchus maculatus 1004 Choristoneura fumiferana 1228, 1266,	sexmaculatus, Menochilus sexmaculatus, Scolothrips	siccifolia, Systrophoeca (see Coleophora siccifolia)
2204, 2702, 3753	sexmaculatus, Scolothrips sexnotatus, Macrosteles	Sideridis
Colias chrysotheme 5330	sexnotatus, Palpifer	flight activity in 5378
C. philodice 5330	sexpunctatus, Odontopus (see	in Romania 5378
Curculio caryae 947	Probergrothius sexpunctatus)	Sierra Leone
Cydia funebrana 5613 C. molesta 1221, 3262, 3298, 5613	sexpunctatus, Probergrothius (Odontopus) sexpunctatus, Ptinus	Aspavia spp. in, on rice 6417 Hysteroneura setariae in, on rice 3918
C. molesta 1221, 3262, 3298, 5613 C. pomonella 1799	sexpunctatus, Ptinus sexta, Manduca	plant protection in 3238
Dacus oleae 985, 1474	sexvittata, Ophraella	Riptortus spp. in, on rice 6417
Dendrolimus spectabilis 5158	Severalles Oryctes manageres in 2936	Stenocoris spp. in, on rice 6417
Dermestes maculatus 4112	Seychelles, Oryctes monoceros in 2936 SH-1467 (see Cypermethrin)	Tetraneura nigriabdominalis in, on rice 3918
Diabrotica virgifera 6247 Diaeretiella rapae 3769	SH-1479 (see Cypermethrin)	Zonocerus variegatus in, on cassava 1532
Diaerenena rapae 3769 Drosophila melanogaster 5324	shabadi, Clavigralla	Sierraphytoptidae, in Kirgizia 1448
Earias insulana 6056	Shade trees arthropod pests of, in Indiana 2850	Sigalphus thoracicus (see Triaspis thoracicus)
Eurygaster integriceps 2872	Curculionidae on, in Yugoslavia 4863	sigillatus, Gryllodes
Heliothis armigera 2200	in tea plantations, effects on Glyptotermes	signata, Chrysopa
H. virescens 5329 H. zea 5328, 5329	dilatatus of 4611	signata, Monolepta
H. zea 5328, 5329 Homoeosoma electellum 2206	Tetranychidae on, in Rajasthan 1361 Shade TM	signata, Plusia signaticornis, Bruchus
Homona magnanima 166, 1222	radioprotective for <i>Baculovirus heliothis</i>	signaticornis, Medetera
Keiferia lycopersicella 1029	6518	signatum, Trypodendron (see Xyloterus
Leptinotarsa decemlineata 2248	radioprotective for Choristoneura	signatus)
Lycoriella mali 5648 Lymantria dispar 780, 1676, 5278	fumiferana NPV 6620 radioprotective for Neodiprion lecontei	signatus, Anthonomus signatus, Corticoris
Mamestra brassicae 6059	NPV 6619	signatus, Deraeocoris
Mythimna loreyi 1224	Sharka virus (see Plum pox virus)	signatus, Xyloterus (Trypodendron)
M. separata 1224	Sheep (Ovis aries)	signifer, Enoclerus
M. unipuncta 2202 Nematus ribesii 6060	arthropods in pastures as affected by 3435, 3437	Signiphora aspidioti in Chile 4570
Ostrinia nubilalis 741, 1747	pasture pests as affected by 2920	parasitising
Pandemis heparana 3480	Thymelicus lineola baculovirus in, no	Aspidiotus nerii, in Chile 4570
Phthorimaea operculella 3767 Plodia interpunctella 3647 6732	effects from 604 Sheen dung Aphodius tasmaniae in in New	Hemiberlesia lataniae, in Chile 4570 Signiphora flava, meconial pellets of 1197
Plodia interpunctella 3647, 6732 Plutella xylostella 3721	Sheep dung, Aphodius tasmaniae in, in New South Wales 1948	Signiphora flava, meconial pellets of 119/ Signiphora flavopalliata desantisi
Popillia japonica 665	Sheepskin, pest control in, insecticides for	in Chile 4444
Prays oleae 3507, 3509	2085	parasitising, Aonidomytilus espinosai, in
Prionoxystus robiniae 6202 Pseudaulacaspis pentagona 4763	sheldoni, Aceria Shepherd's purse (see Capsella bursa-	Chile 4444 sikokiana, Fiorinia
Pseudococcus calceolariae 6132	pastoris)	Silba pendula
P. comstocki 6105	shillongensis, Idioscopus	in Čolombia 1025
Quadraspidiotus perniciosus 5276, 5277	Shinanolone (see 1(2H)-Naphthalenone, 3,4-	on cassava, in Colombia 1025
Rhyacionia subtropica 4618 Sitotroga cerealella 4117, 4240, 5819	dihydro-4,8-dihydroxy-6-methyl-) Shorea, Poecilips gedeanus on, in Borneo	silenus, Phyllognathus silesiacus, Ecphylus
Spodoptera frugiperda 3886	3459	Silica, in grain crops, relation of Oulema
S. triturata 1749	Shorea robusta, Trabala vishnou on, feeding	melanopus resistance and 6157
stored-product insects 3629, 3630	by 1819 Shares talura	Silicie acid
Synanthedon exitiosa 6058, 6237 S. pictipes 3484, 6058, 6262	Shorea talura Coccidae on, in Karnataka 1359	in rice deterring feeding by Nilaparvata lugens
Telea polyphemus 2705	Kerria mysorensis on, in Karnataka	4516
Tetranychus urticae 4409	1359	not involved in resistance to
Tortricidae 1731	Shrew, in forests, effects of DDT on 3102 Shrew, common (see Sorex araneus)	Nilaparvata lugens 6389
Trogoderma granarium 743, 6061 Typhlodromus occidentalis 4239	Shrew, common (see Sorex araneus) Shrew, short-tailed (see Blarina brevicauda)	silius, Sosylus Silli
bioassay for 166	Shrubs	of Antheraea 2846
commercial production of, problems and	Chrysomelidae on, in Chandigarh 5406	of Antheraea mylitta, amino acids in 74
prospects 1746 field screening of 1743	mites on, in Nigeria 6269	of Attacus atlas, amino acids in 744
field screening of 1743 formulations of, determining of half-life of	Sibine barbara biology of 2044	of <i>Bombyx mori</i> amino acids in 744
1136	descriptions of 2044	biosynthesis of 5432
identifying of, ¹³ C NMR for 1719	in Brazil 2044	effects of growth regulators on 1901
insect control using 2124, 5962, 6057 model 6120	on coffee, in Brazil 2044 on <i>Ilex paraguensis</i> , in Brazil 2044	effects of photoperiod on 1900 effects of population density on 4354
problems in 1735	Sibine fusca, Densovirus spp. in,	glycopeptides in 767
laboratory synthesis of 1743, 5962	pathogenicity of 2938	hormonal regulation of production of,
on rubber septa, half-lives of 4171	Sibinia algarobilla	review 6336
reacting with chemicals in rubber septa 2279	sp. nov., description of 3076 in Argentina 3076	hormones for regulating production of 2844
receptors for 666	on <i>Prosopis</i> , in Argentina 3076	strain differences in production of
role of isopentenoids in chemistry of	Sibinia asulcifera	4352
3229	distribution of 3076	of Samia cynthia
thresholds for responses to 1729 use in integrated control of 1738, 4949	food-plants of 3076 in Argentina 3076	amino acids in 744 effects of food-plant amino acids on
Sexava coriacea	on Prosopis, in Argentina 3076	effects of food-plant amino acids on 4369
control of 936	Sibinia concava	effects of insect growth regulators on
in Indonesia 936	distribution of 3076	production of 4366
on coconut, in Indonesia 936 Sexava karnyi	food-plants of 3076 in Argentina 3076	Silpha obscura in West Germany 6358
control of 936	on Prosopis, in Argentina 3076	in rye fields, in West Germany 6358
in Indonesia 936	Sibinia mastuerzo	Silphidae
on coconut, in Indonesia 936	sp. nov., description of 3076	in maize fields, in West Germany 6358
Sexava nubila control of 936	in Argentina 3076 on <i>Prosopis</i> , in Argentina 3076	in rye fields, in West Germany 6358 traps for 3794
in Indonesia 936	Sibinia sulcifera, group of, key to 3076	Silvanus bidentatus
on coconut, in Indonesia 936	Sibinia tintitaco	control of, traps for 3615
sexdens, Atta sexdentatum, Sinoxylon	sp. nov., description of 3076	in Malaysia 3615
sexdentatum, Sinoxylon sexdentatus, Ips	in Argentina 3076 on <i>Prosopis</i> , in Argentina 3076	in UK 3092 in herbarium specimens, in West Malaysi
seventtelle Chrysnesthie (Microsotie)	cibiriae Decruce	2416

sexguttella, Microsetia (see Chrysoesthia

uvanus didentatus contd.	Sipna ilaya	Sitobion avenae contd.
on Fagus, in England 3092	on grain crops	on wheat contd.
ilvanus surinamensis (see Oryzaephilus	damage caused by 3372	in Ukraine 1920
surinamensis)	resistance to 3372	resistance to 6359
ilvaticus, Tetrastichus	Sipha maydis	varietal preferences of 2306
ilvestrii, Carebara	in India 2765	parasites of
ilvestrii, Encarsia	in USSR 3376	in England 1388, 5519
ilvestris, Drosophila	on Cynodon dactylon	in Kazakhstan 3376
ilvestris, Parasetigena ilybum	in Himachal Pradesh 2765 in Jammu and Kashmir 2765	population dynamics of 1388
control of, biological, review 5505	on grain crops, in Kazakhstan 3376	predators of effects of insecticides on 5998
Lema cyanella on, feeding by 1904	parasites of, in Kazakhstan 3376	in England 1388
Silybum marianum, Ceutorhynchus	parasitised by	seasonal abundance of 2875
trimaculatus on, oviposition by 5010	Adialytus arvicola	traps for 2875
imilis, Amblyseius	in Himachal Pradesh 2765	Sitobion fragariae
imilis, Atractomorpha	in Jammu and Kashmir 2765	hyperparasites of, in England 1388, 5519
imilis, Calaphis	Siphonaptera	in UK 1388, 5519
imilis, Corynis	book 6265	on grain crops, in England 1388
imilis, Diprion	in Italy 2292	parasites of, in England 1388, 5519
milis, Dysdercus	in livestock housing, in France 5230	population dynamics of 1388
milis, Euproctis (Porthesia)	siphonophorae, Pachyneuron siphonulus, Stethorus	predators of, in England 1388 Sitobion hillerislambersi
milis, Harpalus (Ophonus)	SIR-8514 (see Benzamide, 2-chloro-N-[[[4-	sp. nov., description of 2854
milis, Hortensia	(trifluoromethoxy)phenyl]amino]carb-	in Angola 2854
milis, Melanotus	onyl]-)	on Cyperus esculentus, in Angola 2854
milis, Microplitis	Sirex noctilio	parasitised by, Aphidius camerunensis, in
milis, Ophonus (see Harpalus similis)	control of, biological 5764	Angola 2854
milis, Patelloa	in New Zealand 5764	Sitobion rosaeiformis
milis, Porthesia (see Euproctis similis)	on Pinus, in New Zealand 5764	control of, insecticides for 5137
millimum, Tetramorium	Siricidae	in India 5137
mmondsi, Painella	in Lithuania 5387	on rose, in Himachal Pradesh 5137
mmondsi, Trichogrammatoidea	in wood, in Finland 4102	Sitodiplosis mosellana
immondsia californica, Incisitermes	siro, Acarus	biology of 2233
fruticavus on, in California 5119	Sisymbrium officinale glucosinolates in 282	in Czechoslovakia 2871 in Hungary 2868
immondsia chinensis (see S. californica)	Phyllotreta armoraciae on, feeding by	on wheat
mplex, Adoretus	282	in Czechoslovakia 2871
mplex, Nisaga	Siteroptes athiasae	in Hungary 2868
mplex, Prorhinotermes	descriptions of 2989	Sitona
mplicicornis, Paraneotermes	in France 2989	control of, insecticides for 6736
mpliciella, Glyphipterix	in mushroom houses, in Americas 2987	natural enemies of, in UK 6736
mplicitor, Anastrus sempiternus	Siteroptes flechtmanni	on bean, damage caused by 3519
mulans, Drosophila	descriptions of 2987 in mushroom houses, in Americas 2987	on lucerne, evaluating feeding preferences of 6438
mulans, Neorthacris (Orthacris) mulans, Orthacris (see Neorthacris	in mushroom houses, in Americas 2987 Siteroptes kneeboni	on pea
simulans)	descriptions of 2987	damage caused by 3519
mulans, Paranthrene	in mushroom houses, in Americas 2987	in UK 6736
mulans, Proreus	Siteroptes mesembrinae	on Trifolium repens, in Himachal Pradesl
muliidae, traps for 1317	descriptions of 2987	2930
mulium, preyed on by, Holcocephala	in mushroom houses, in Americas 2987	on Vicia faba, in UK 6736
fusca, in Virginia 3350	sitkensis, Pamphilius	Sitona callosus
multaneous cropping, of rice, role in pest	Sitobion akebiae, preyed on by, Propylea	distribution of 1763
control of 2402 inapis alba (see Mustard (Sinapis alba))	japonica 1883 Sitobion avenae	on sainfoin 1763 taxonomy of
nea confusa	biology of 298, 1920	Sitona correctus distinct from 1763
in USA 5011, 5720	control of	S. tenuis distinct from 1763
in cotton fields, in Arizona 5720	biological 5998	group of, taxonomy of 1763
predation by 5720	insecticides for 2867, 2878, 6349, 6361	Sitona correctus
preying on, Zygogramma tortuosa, in	threshold for 298, 6362	in USSR 1763
California 5011	Entomophthora spp. in, not affected by	taxonomy of, distinct from S. callosus
neacar (see Naphthalene)	fungicides 5524	1763 Sitona hignidulug
nella caeca, preyed on by, Pergamasus longicornis 3422	flight activity in 5379 humidity responses in 1289, 5379	Sitona hispidulus biology of 425
nghala helleri	hyperparasites of, in England 1388, 5519	control of 425
in India 281	in Brazil 5527	in UK 425
on cinnamon, in India 281	in Chile 5998	parasites of, effects of age on 6242
ngularis, Sahlbergella	in East Germany 2866, 2876, 2885	parasitised by, Patasson lameerei 6242
ngulus, Andricus	in Mexico 2306	Sitona humeralis
phai, Euvarroa	in Netherlands 298	control of, biological 5951
nica, Pryeria	in Poland 2875, 3373	development in 4324
noratox (see Dimethoate)	in Romania 6349 in Sweden 5521	in Australia 3446, 5951 in Czechoslovakia 3448
noxylon perforans	in UK 1388, 5519, 5575	in France 3446, 3981
biology of 942	in USSR 1920, 2867, 3376	life tables for 3446
control of, insecticides for 942	in West Germany 5524	on lucerne
descriptions of 942	light responses in 5379	damage caused by 3448
in Bulgaria 942	low-temperature survival in 3761	in France 3446, 3981
on grapevine, damage caused by 942	on barley, varietal preferences of 6359	population dynamics of 3981
control of, insecticides for 942	on grain crops assessing infestations of 2866, 2885	rearing of, techniques for 4324 taxonomy of, characters distinguishing S.
in Bulgaria 942	damage caused by 2876, 3373	puncticollis and 3981
on grapevine, damage caused by 942	in Byelorussia 2867	Sitona lineatus
ntox (see Ethion)	in England 1388	biology of 425
uata, Pachnoda	in Kazakhstan 3376	control of 425
palinus hypocrita	on pasture plants, in UK 5575	insecticides for 6509
in Thailand 5175	on range grasses, survival and	flight activity in 4582
in pine wood, in Thailand 5175	reproduction of 2358	food-plants of 4579, 4580
balus hypocrita (see Sipalinus hypocrita)	on wheat damage caused by 298, 2877, 6152,	in Canada 4580 in UK 425, 6509
pha agropyrella (see S. elegans) pha elegans	6362	in USA 4579, 4580, 4582
Entomophthora spp. in, not affected by	in Brazil 5527	on lucerne, damage caused by 3454
fungicides 5524	in Chile 5998	on pea
n West Germany 5524	in Romania 6349	in Idaho 4582

on rea contd	in maize grain	reproductive rate in, effects of protective
on pea contd. in Washington 4582	in maize grain damage caused by 4122, 4123, 4124,	atmospheres on 3673
on Vicia faba, damage caused by 6509	4663 4122, 4123, 4124,	taxonomy of
Sitona puncticollis	development of 771	characters distinguishing S. granarius
in France 3981	in Nigeria 3650	and 6033
on lucerne, in France 3981	in rice grain	characters distinguishing S. oryzae and
population dynamics of 3981	effects of glazing on 593	6033
taxonomy of, characters distinguishing S.	in Taiwan 4677	β -Sitosterol (see Stigmast-5-en-3-ol, (3β) -)
humeralis and 3981	in sorghum grain	Sitotroga cerealella
Sitona sulcifrons	development of 771	adults of, distinguishing sexes of 4126 Aspergillus flavus in, transmission of
biology of 425	resistance to 2653	4655
control of 425 in UK 425	varietal preferences of 5039 in stored grain, effects of disturbance on	chorion in 5802
Sitona tenuis	771	competing with, Sitophilus zeamais 466
distribution of 1763	in wheat grain	control of 593
food-plants of 1763	development of 771	fumigants for 4121
taxonomy of, distinct from S. callosus	effects of fungi on 2785	growth regulators for 2092, 4713 heating of grain for 3642
1763	in wheat products, extracting of 3668	insecticides for 1112, 4121, 5510,
Sitophilus, control of, fumigants for 3636	life-span in, not affected by γ-irradiated	5809, 5813, 6658
Sitophilus granarius	diet 1108	development in
Aspergillus fumigatus in, pathogenicity of	light responses in 3133	effect of temperature on 4346
3675 carbon dioxide in, development of	lindane resistance in, in India 6640 malathion resistance in, in India 6640	effects of humidity on 4346
resistance to 4149	nutrition of 3269	enzymes in 1215 in Brazil 4121
control of	on maize, in Libya 2368	in India 4655, 5816
beta-irradiation for 3648	oviposition in, effects of fungi on 2785	in Kenya 4656
biological 587	oxygen consumption in	in Swaziland 4662
evaluating of 5424	effects of humidity on 3674	in Zambia 5813
fumigants for 584, 3114	effects of temperature on 3674 phosphine resistance in, in India 6640	in barley grain, development of 6653
growth regulators for 590 insecticides for 3130, 3705, 3797, 6173	rearing of	in dried red peppers, in India 4655 in maize grain
repellents for 6173	diets for 3269	damage caused by 592, 4656
descriptions of 6033	techniques for 3115	development of 6653
egg-hatch in 3115	reproduction in, effects of temperature on	in Brazil 4121
in Austria 1756	1610	in Zambia 5813
in Bulgaria 3130 in Taiwan, not found 4677	taxonomy of characters distinguishing S. granarius	resistance to 6178 in oats grain, development of 6653
in UK 4660	and 6033	in rice grain
in maize grain, development of 771	characters distinguishing S. zeamais and	effects of glazing on 593
in rice grain, effects of glazing on 593	6033	varietal preferences of 1613, 5820
in sorghum grain, development of 771	Sitophilus zeamais	in sorghum grain, development of 6653
in stored grain, effects of disturbance on 771	competing with, Sitotroga cerealella 4667 control of	in wheat grain, development of 6653 insecticide resistance in, mechanisms of
in wheat grain, development of 771	beta-irradiation for 3648	1215
insecticide susceptibility in, effects of	fumigants for 4121	on maize, in Punjab 5816
temperature on 3705	insecticides for 4121, 5813	on rice, in Punjab 5816
light responses in 3133 oxygen consumption in	resistant packing containers for 2606 descriptions of 4677, 6033	ova in, degeneration of 1230 parasitised by
effects of humidity on 3674	development in, effects of protective	Trichogramma spp. 1226, 1648, 1650
effects of temperature on 3674	atmospheres on 3672	2620
pyrethrins resistance in, and cross-	flight activity in 6186	T. embryophagum 1706
resistance 5814	in Brazil 4121	T. euproctidis 5464 T. perkinsi 5517
rearing of, techniques for 3115 reproduction in, effects of temperature on	in India 5816 in Kenya 4656	T. perkinsi 5517 T. pretiosum 1045
1610	in Nigeria 3650, 3651, 4663, 6649	plant extracts in, ovicidal activity of
taxonomy of	in Swaziland 4662	5510
characters distinguishing S. oryzae and	in Taiwan 4677	preyed on by
6033	in Zambia 5813	Chrysopa carnea 169, 4455
characters distinguishing S. zeamais and 6033	in maize grain damage caused by 591, 4656, 4663	Orius minutus 3473 Xylocoris flavipes 5821
Sitophilus oryzae	damage caused by 591, 4656, 4663 development of 771	rearing of, diets for 1226
control of	in Brazil 4121	sex pheromone of
beta-irradiation for 3648	in Nigeria 3650	production of 4117
fumigants for 589, 3114, 4665, 5225,	in Zambia 5813	responses to 4240, 5819
6640 growth regulators for 590, 2092, 4713	varietal preferences of 6648, 6649 in rice grain	Sitophilus zeamais mortality increased in presence of 3653
heating of grain for 3642	development of 2086	sjostedti, Megalurothrips (Taeniothrips)
humidity control for 3113	effects of humidity on 3132	sjostedti, Taeniothrips (see Megalurothrips
insecticides for 595, 663, 1112, 1612,	effects of husk integrity on 2086	sjostedti)
2138, 2784, 3130, 3635, 3655, 6654, 6658	in Taiwan 4677	Skatole (see 1H-Indole, 3-methyl-) Skim-milk powder, mites in, extracting of
6658 protective atmospheres for 1116, 2096,	oviposition by 2086 in sorghum grain	Skim-milk powder, mites in, extracting of 5220
3646	damage caused by 5811	Skink, preying on, Maruca testulalis, in
descriptions of 4677, 6033	development of 771	Nigeria 6514
development in	in stored grain	Slaterocoris, on Solidago, in New York
effects of damaged grain on 3670 effects of fungi on 2785	effects of disturbance on 771 oviposition by 2086	2855 slavonicus, Heliococcus
egg-hatch in 3115	in stored pulses, oviposition by 2086	Slavum lentiscoides
fecundity in, effects of γ-irradiated diet on	in wheat grain, development of 771	in USSR 3460
1108	in wheat products, extracting of 3668	on Pistacia vera
in Bulgaria 3130	in yam chips, in Nigeria 3651	arthropods associated with 3460
in India 3677, 6640 in Libya 2368	life-span in, effects of protective atmospheres on 3673	in Turkmenia 3460 preyed on by, Alophia combustella, in
in Mali 4665	mortality in, increased in presence of	Turkmenia 3460
in Nigeria 3650, 4663	Sitotroga cerealella 3653	Slug
in Swaziland 4662	on maize, in Punjab 5816	control of, biological, book 4449
in Taiwan 4677	oviposition in, effects of protective	natural enemies of, book 4449
in UK 4660 in Areca catechu nuts, in Karnataka	atmospheres on 3672 oxygen consumption in	smaragdina, Oecophylla smeathmani, Odontotermes
3677	effects of humidity on 3674	Smicronyx fulvus
in barley grain, oviposition by 6177	effects of temperature on 3674	biology of 1539, 6259

Smicronyx fulvus contd.	Sogatella furcifera contd.	Soil contd.
control of	insecticide susceptibility in, relation of	methomyl in contd.
insecticides for 6259	wing-form ratio and 6719	degradation of 5986
threshold for 6259, 6260	migration in 895, 2233, 2386	parathion in, degradation of 2147
descriptions of 2033	mung bean yellow mosaic virus in, not	pest control in, insecticides for 1862
in USA 1539, 2033, 6259, 6260	transmitted 443	pesticides in
on Helianthus maximilianii, in North	on rice	effects on fauna of 1683, 1711
Dakota 1539	damage caused by 3931, 3943	non-biological degradation of 3202
on Helianthus petiolaris, in North Dakota 1539	in China 918	phorate in
on sunflower	in Egypt 889 in India 343	degradation of 1693, 6215
damage caused by 6259	in India 343	effects of organic amendments on 5552
in Illinois 2033	in Karnataka 887	movement of 1693
in Missouri 2033	in Madhya Pradesh 3924	residues of 2003, 6251
in North Dakota 1539, 2033, 6260	in Pakistan 3914, 6386	phosfolan in, adsorption of 4394
parasites of, in North Dakota 1539, 6259	in Punjab 5553	profenofos in, photolysis of 1713
predators of, in North Dakota 6259	in Sri Lanka 324	Pseudoplusia includens nuclear
preyed on by, Cyclotelus rufiventris, in	in Tamil Nadu 345	polyhedrosis virus in, persistence of
North Dakota 1539	in Thailand 911, 912	3527
Smicronyx lutulentus	in West Malaysia 3916, 6406, 6407,	pyrethrins in, residues of 1491
biology of 1664	6408	pyrethroids in, degradation of 656, 5260
in Mexico 1664	varietal preferences of 898, 3921, 3943	terbufos in, residues of 6251
on Parthenium hysterophorus, in Mexico	parasites of in Sri Lanka 324	tetranactin in, degradation of 6714 Soil erosion (see Erosion)
milax, Holocerina	in Thailand 911, 912	Soil pollution, ants as affected by 126, 128
mileyi, Pseudopygmephorus	parasitised by	Soil properties, termite nest-building as
Sminthurinus aureus	Pipunculidae, in West Malaysia 5546	affecting 6333
in Irish Republic 3437	Tetrastichus spp., in Philippines 3967	sojae, Melanagromyza
in grassland, in Irish Republic 3437	population dynamics of 345	sokolowskii, Tetrastichus
Sminthurus, in grassland, in Irish Republic	predators of, in Thailand 911	solanella, Aphis fabae
3437	preyed on by, Tetrastichus spp., in	solani, Acyrthosiphon (see Aulacorthum
Sminthurus viridis	Philippines 3967	solani)
control of, insecticides for 5868	rice ragged stunt virus in, not transmitted	solani, Aulacorthum (Acyrthosiphon;
in Egypt 4357	6390	Myzus)
in Irish Republic 3436	seasonal abundance of 889	solani, Liriomyza (see L. bryoniae)
in New Zealand 5868	sex ratio in 889	solani, Myzus (see Aulacorthum solani)
in grassland, in Irish Republic 3436	starvation tolerance in 895 temperature variations as affecting 345	solani, Phenacoccus Solanum
in pastures, in New Zealand 5868 mithi, Aphidius	temperature variations as affecting 345 traps for 3916, 6406, 6408	arthropod pests of, resistance to 2027
Smittia aterrima, wing-beat frequency of,	Sogatella vibix	Empoasca fabae on, resistance to 2027
measuring of 1846	in Egypt 889, 3394	Mechanitis polymnia on, on Costa Rica
Snall	on rice, in Egypt 889	5499
control of, biological, book 4449	seasonal abundance of 889	Myzus persicae on, resistance to, biotype
natural enemies of, book 4449	sex ratio in 889, 3394	variation in 6234
preyed on by, Neolimnia spp. 3843	Sogatodes orizicola	Tetranychidae on, in Kenya 6515
nowfields, Psyllidae in, in California 1838	in Brazil 3966	Solanum berthaultii, alkaloidal glycosides in
poops	in Cuba 4445	Empoasca fabae feeding responses to
against, pests of ornamental plants 1063	on rice	1528
for flushing insects from grassland 2412	in Brazil 3966	Solanum bulbocastanum, alkaloidal
occata, Atherigona ocia, Gilpinia	in Cuba 4445 parasitised by, Anagrus perforator, in	glycosides in, <i>Empoasca fabae</i> feeding responses to 1528
ocialis, Pericapritermes	Cuba 4445	Solanum chacoense, alkaloidal glycosides in,
Society Islands, Chrysomelidae in 1833	Sogatox (see Phenthoate, with 3-	Empoasca fabae feeding responses to
ocius, Tarsonemus	methylphenyl methylcarbamate)	1528
Sodium	sogdianus, Perihylobius	Solanum elaeagnifolium, control of,
in Pinus sylvestris, utilisation by	Soil	biological 5946
Neodiprion sertifer of 5756	aldicarb in, residues of 2003	Solanum hougasii, alkaloidal glycosides in,
ion (Na ¹⁺)	aldrin in	Empoasca fabae feeding responses to
in Phaseolus, effects on Aphis	effects of root crops on 5680	1528
craccivora of 4340	persistence of 3896	Solanum indicum, Henosepilachna vigintioctopunctata on, development of
in Vigna unguiculata, effects on Aphis craccivora of 4340	residues of 1519, 2145, 3011 arthropods in	4044
Sodium chloride, Yponomeuta feeding	biology of 2780	Solanum khasianum, Henosepilachna
responses to 4775	extracting of 4872, 4873	vigintioctopunctata on, development of
Sodium fluoride, in Drosophila	Bacillus thuringiensis in, effects of pH on	4044
melanogaster, stimulating adenylate	5245	Solanum melongena (see Eggplant)
cyclase in imaginal disks 3278	carbaryl in	Solanum nigrum, Bemisia tabaci on, in
oemius, Pnigalio	degradation of 5986	Brazil 2015
ogatella furcifera	persistence of 3227	Solanum pampasense, Empoasca fabae on,
biology of 2383	residues of 5697	resistance to 2493
control of	carbofuran in	Solanum paniculatum, Bemisia tabaci on, in Brazil 2015
cultural 343 insecticides for 343, 2651, 2912, 3931,	fate of 3917 microbial degradation of 6252	Solanum phureja, Myzus persicae on,
6407, 6719	mobility of 4162	resistance to 6549
non-target effects of 6407	residues of 213	Solanum pubescens, Henosepilachna
diurnal activity in 3916	Coleoptera in, in North Dakota 264	vigintioctopunctata on, not surviving
flight activity in 6406	crotoxyphos in, degradation of 5271	4044
Fusarium spp. in, in Madhya Pradesh	DDT in, effects on productivity of 5270	Solanum sarrachoides
3924	diazinon in, photolysis of 1713	Leptinotarsa decemlineata on, fecundity of
Hexamermis spp. in, in Karnataka 887	dieldrin in, residues of 1519	6535
in China 895, 918	diflubenzuron in, degradation of 3545	Myzus persicae on, development of 396
in Egypt 889	fertilizers in, effects on fauna of 1711	Solanum sisymbriifolium, Bemisia tabaci on, in Brazil 2015
in India 343, 345, 887, 898, 3921, 3924,	fonofos in, residues of 6251 HCH in, residues of 3011	Solanum spegazini, Myzus persicae on
3943, 5553 in Indonesia 321	heptachlor in, residues of 3011	6234
in Japan 895, 2383, 2912, 6719	insecticides in	Solanum tuberosum (see Potato)
in Malaysia 2651, 3916, 5546, 6406,	adsorption of 1161	Solanum xanthocarpum, Henosepilachna
6407, 6408	effects of 2141	vigintioctopunctata on, development of
in Pakistan 3914, 3931, 6386	insects in, role in erosion of 2790	4044
in Philippines 3967, 6719	lindane in, residues of 6723	Solenopsis, on Ochroma pyramidale, nectar
in South Korea 2383	methidathion in, photolysis of 1713	production and 4972
in Sri Lanka 324	methomyl in	Solenopsis fugax in Poland 127
in Thailand 911, 912, 6719	adsorption of 4394	III I Olaliu 12/

```
Solenopsis fugax contd.
                                                                                                                                         Sophrorhinus gbanjaensis
                                                                                                                                                                                                                                                                                  Sorghum contd.
                                                                                                                                                                                                                                                                                       organim conta.

Graphognathus peregrinus on, not ovipositing 3760

Heliothis armigera on in India 3418 in New South Wales 4608 in Queensland 1938
       poison of, repelling defensive workers of prey species 6294
                                                                                                                                                control of, cultural 3654
                                                                                                                                         on Cola gigantea, development of 3654
Sorbic acid (see 2,4-Hexadienoic acid,
        preying on, Lasius flavus 6294 urbanization as affecting 127
                                                                                                                                                    (2E, 4E)-)
                                                                                                                                         sorbitol (see D-Glucitol)
  Solenopsis geminata
elemental composition of 2323
glycogen in, reserves of 4266
in Canada 4428
in hothouses, in Manitoba 4428
trophallactic appeasement in 3335
Solenopsis geminata rufa
in Philippines 904
preying on, Cnaphalocrocis medinalis, in
Philippines 904
Solenopsis invicta
control of
baits for 3838
                                                                                                                                          Sorbitol dehydrogenase (see Dehydrogenase,
        glycogen in, reserves of 4266
                                                                                                                                                                                                                                                                                              damage caused by 3417
in Barbados 5121
in North Carolina 2041
in Texas 65
                                                                                                                                          Sorbus, Loxostege sticticalis on, in USSR
                                                                                                                                                  6585
                                                                                                                                          Sorbus aucuparia
                                                                                                                                                                                                                                                                                         insect pests of
in India 6352
                                                                                                                                                Acronicta spp. on, in England 4100 Caliroa cerasi on, in Lithuania 5396
                                                                                                                                                                                                                                                                                               in Mexico 923
                                                                                                                                                                                                                                                                                        in Mexico y23
resistance to 693
insecticides in, toxicity of 3976
intercropped with Cajanus cajan 2488
Locusta migratoria on
development of 2321
feeding deterrents to 5040
Melanaphis sacchari on, in Uttar Pradesh
290
                                                                                                                                                 Eriosoma sorbiradicis on, in Sweden
                                                                                                                                                          2170
      control of
baits for 3838
insecticides for 643, 3838
digestive enzymes in 6291
elemental composition of 2323
embryonic development in 2679
in USA 242, 515, 643, 1086, 2324, 2366, 4601, 4603
in cotton fields, not affecting predatory
arthropods 4601
in pastures, interactions with other ants of
                                                                                                                                                 Gastropacha quercifolia on, in Finland
                                                                                                                                                          5771
                                                                                                                                                 Gonioctena quinquepunctata on, in Italy
                                                                                                                                                         1985
                                                                                                                                          Phyllobius pyri on 1764
Sorbus domestica, Gonioctena
                                                                                                                                                                                                                                                                                        290
Melanoplus spp. on, in USA 820
Mythimna separata on
in Queensland 1938
in Rajasthan 6377
M. unipuncta on, in Maharashtra 2915
Nezara viridula on, in Queensland 1937
                                                                                                                                                    quinquepunctata on, development of
                                                                                                                                                    1985
                                                                                                                                         1985
sordens, Apamea
sordida, Hadena (see Apamea anceps)
sordidus, Cosmopolites
Sorex araneus, preying on, Cephalcia
lariciphila, in Wales 5159
sorghicola, Contarinia
sorghiella, Celama (see Nola sorghiella)
sorghiella, Nola (Celama)
Sorghum (Sorghum bicolor)
Aiolopus thalassinus on, in Pakistan 232
Antherigona soccata on, resistance to
        in pastures, interactions with other ants of 2324
       labial glands in 6291
larval development in 2679
marking of 2276
nuptial flights in 242
                                                                                                                                                                                                                                                                                         Nola sorghiella on
                                                                                                                                                                                                                                                                                              effects of sowing date on 1415
in Texas 1415
                                                                                                                                                                                                                                                                                        in 1exas 1415
Oligonychus indicus on
in Haryana 267
in Karnataka 3975
O. pratensis on, in Texas 920
pest control on 923, 2849, 5496, 6429
biological 1646
insecticide duster for 2770
Pseudococcidae on, in Papua New Guinea
903
        Oliarus vicarius in mounds of, in Georgia (USA) 515
       on maize, damage caused by 2366
oocytes in, neuroendocrine regulation of
maturation of 1233
prey of 4601
                                                                                                                                                 Antherigona soccata on, resistance to 2406
                                                                                                                                               parasites in 3882
arthropod pests of
in Andhra Pradesh 4722, 6353
in Gambia 4182
in Romania 2849
prey of 4601
preying on

Anthonomus grandis, and biological
control using, in Texas 4602
Heliothis virescens, in Texas 4603
tending, Tourneyella parvicornis, in
Florida 1086
trophallactic appeasement in 3335
Solenopsis richteri, elemental composition of
2323
                                                                                                                                                                                                                                                                                         Pseudonapomyza gujaratica on, in Gujarat
                                                                                                                                                                                                                                                                                                  6372
                                                                                                                                               in Romania 2849
Atherigona soccata on
damage caused by 6429
effects of fertilizers on 5042
effects of sowing date on 1414, 2405
in Delhi 5041
in Hyderabad 2404
in Maharashtra 1416, 2915
in Rajasthan 5041
resistance to 5043
Blissus leuconterus on in Kansas 6160
                                                                                                                                                                                                                                                                                       6372
Rhopalosiphum maidis on in Queensland 1937 in Texas 2917
Schizaphis graminum on damage caused by 6153 development of 3372 effects of antis on 866 feeding by 4503 in Texas 2917
Sipha flava on, damage caused by 3372
Sipha flava on, in Queensland
 Solenopsis texana
in Canada 4428
  in hothouses, in Manitoba 4428 solens, Proprioseiopsis solidaginis, Eurosta
  Solidago
                                                                                                                                                 Blissus leucopterus on, in Kansas 6169
        Craspedolepta spp. on
in North America 1181
                                                                                                                                                 Caenoblissus pilosus on, in Papua New
Guinea 903
                                                                                                                                                                                                                                                                                         Spodoptera exempta on, in Queensland 1938
in North America 1181
in Quebec 1180
Eurosta spp. on, in USA 6340
Miridae on, in New York 2855
Solidago altissima
Atractomorpha lata on, in Kyushu 3292
Trialeurodes vaporariorum on,
development of 3292
Solidago graminifolia, Epiblema scudderiana
on, in Pennsylvania 2825
Solidago juncea
                                                                                                                                                                                                                                                                                  S. frugiperda on
damage caused by 3417
fecundity of 2303
Sorghum bicolor (see Sorghum)
Sorghum fields
                                                                                                                                                 Catantops haemorrhoidalis on, feeding by 5455
                                                                                                                                               5455
Chilo partellus on damage caused by 6429 development of 5020 in Maharashtra 1416, 2915 in South Africa 1413 in Tamil Nadu 5573 resistance to 2916, 5043 varietal preferences of 1936, Cofana spectra on 287
Contarinia sorghicola on damage caused by 6429 development of 5569 effects of sowing date on 64
                                                                                                                                                                                                                                                                                        Amblyseius scyphus in, in Texas 920
parasitic insects in, in Andhra Pradesh
6310, 6353
                                                                                                                                                                                                                                                                                  predatory arthropods in, in Andhra
Pradesh 6353
Sorghum halepense
Diatraea saccharalis on, in Texas 1914,
Solidago juncea

Eurosta elsa on, in Ohio 6340

E. reticulata on, in Ohio 6340

Solidago sempervirens, Eurosta reticulata
on, in Ohio 6340
                                                                                                                                                                                                                      1936, 2408
                                                                                                                                                                                                                                                                                                  3358
                                                                                                                                                                                                                                                                                         Patna rhizolineata on, in Pakistan 6430
Rubroscirus africanus on, in southern
 solitarius, Apanteles (see A. melanoscelus)
Solomon Islands
                                                                                                                                                      effects of sowing date on 6426
in Brazil 3976
in Florida 919
Solomon Islands
agricultural entomology in 4179
biological control in 3698, 4696, 6002
Nilaparvata lugens in, on rice 2381, 2394
Pantorhytes spp. in 1053
solomonensis, Leptocorisa
solstitiale, Amphimallon
Solvirex (see Disulfoton)
Somali Democratic Republic
locust control in 5898
Schistocerca gregaria in 1873
Sonchus, Nysius caledoniae on, in Hawaii
4614
Song
                                                                                                                                                                                                                                                                                  Africa 5
Schizaphis graminum on, effects of ants on 866
Sorghum-leaf powder, diet component for, Chilo partellus 6427
Sorghum meal, diet component for, Corcyra cephalonica 2682
Sorghum (stored grain)
Contarinia sorghicola in, in Queensland 3131
                                                                                                                                               in Florida 919
in Georgia (USA) 2407
in Karnataka 1417, 3416
in Maharashtra 6428
in Queensland 1937
in Tamil Nadu 5574
resistance to 922
varietal preferences of 5571
Cryptoblabes adoceta on, in Queensland 1938
Cyttacentheric auticles
                                                                                                                                                                                                                                                                                                  3131
                                                                                                                                                                                                                                                                                         Corcyra cephalonica in, development of 6657
                                                                                                                                               Cyrtacanthacris guttulosa on, in New South Wales 822
Diatraea saccharalis on effects of sowing date on 6426 in Texas 1914, 3358 resistance to 5570
                                                                                                                                                                                                                                                                                        Ephestia cautella in, varietal preferences of 5815 insect pests of, in Nigeria 3651 lindane in, residues of 5817 pest control in . 5809 fumigation for 4665 insecticide application methods for 2784
Song
Drosophila melanogaster 3739
Magicicada cassinii 4250
M. septendecim 4250
M. septendecula 4250
Neoconocephalus nebrascensis 2795
Okanagana rimosa 4250
Curbula admirabilis 2798
                                                                                                                                                Dichocrocis punctiferalis on, in
Queensland 1937
                                                                                                                                                 Dysdercus cingulatus on, development of
                                                                                                                                                                                                                                                                                                        2784
                                                                                                                                                        4597
                                                                                                                                                                                                                                                                                               traditional methods of 3622
 sonomana, Eucosma
sonorensis, Campoletis
                                                                                                                                                                                                                                                                                         vegetable oils for 6658 phosphine in, toxicity of 3131
                                                                                                                                                 Euschistus conspersus on, in California
```

5364

rghum (stored grain) contd.	South Africa contd.	Sowing date contd.
Sitophilus spp. in, development of 771 S. oryzae in	pesticide use in 642	of maize contd.
resistance to 2653	Pseudococcidae in, on pineapple 4013 Pseudococcus spp. in	effects on <i>Diabrotica virgifera</i> of 5540 effects on insect pests of 2363, 2368
varietal preferences of 5039	on apple 2958	of oats, effects on Oscinella frit of 3361
S. zeamais in, damage caused by 5811	on pear 2958	of rice
Sitotroga cerealella in, development of	P. obscurus in 258	effects on Cnaphalocrocis medinalis of
6653	Pulvinaria delottoi in, on Crassula 5140	3945
Verticillium lecanii in, culturing of 5236 rghum trichopus, Locusta migratoria on,	Pulvinariella mesembryanthemi in, natural	effects on insect pests of 892
in Mali 3328	enemies of 4450 Rhopalosiphum maidis in, on grain crops	effects on Nephotettix cincticeps of 910
rghum vulgare (see Sorghum)	6360	effects on Nilaparvata lugens of 2402
rolopha archimedias (see Eudemopsis	R. padi in, on grain crops 6360	effects on Orseolia oryzae of 3381
archimedias)	Rubroscirus spp. in 5	of sorghum
sylus, in New Guinea 6614	Saissetia nigrella in, natural enemies of 26	effects on Atherigona soccata of 1414 2405
sylus erosus, in Papua New Guinea	S. oleae in, natural enemies of 4450	effects on Contarinia sorghicola of
6614	Scirtothrips aurantii in, on Citrus 5080	6426
sylus giluwe sp. nov., description of 6614	Sesamia calamistis in, on sugar-cane 1382	effects on Diatraea saccharalis of 642
in Papua New Guinea 6614	Staphylinochrous whytei in 688	effects on Nola sorghiella of 1415 of soyabean
sylus hyweli	Sternochetus mangiferae in, on mango	effects on arthropod pests of 459
sp. nov., description of 6614	4011	effects on pests and natural enemies of
in Papua New Guinea 6614 sylus minusculus	Tetranychus lombardini in, on banana 988, 2982	460
sp. nov., description of 6614	Trioza erytreae in, on Citrus 1469	of sunflower effects on Cylindrocopturus adspersus
in Papua New Guinea 6614	wattle in, insect pests of 2597	of 3543
sylus morobensis	South Australia	effects on Eucosma womonana of
sp. nov., description of 6614	Chortoicetes terminifera in 6273, 6274,	2034
in Papua New Guinea 6614 sylus reflexus	6282 Citrus in, biological control on 5949	effects on Napomyza lateralis of 5120 of Vigna radiata, effects on insect pests of
sp. nov., description of 6614	Cydia molesta in, on peach 5616	432, 436
descriptions of 6615	South Carolina	of wheat
n Papua New Guinea 6614, 6615	Acrosternum hilare in, on soyabean 3526	effects on Diptera of 2360
sylus silius descriptions of 6615	Anthonomus grandis in 3039	effects on <i>Trigonotylus coelestialium</i> of 2361
in Papua New Guinea 6615	on cotton 481, 482, 2526 Chalcodermus aeneus in, on Vigna	Sowing depth, of sunflower, effects on
sylus vicinus	unguiculata 5105	Napomyza lateralis of 5120
descriptions of 6615	Eudiagogus spp. in, on Sesbania 1909	Sowing rate
n Papua New Guinea 6615	Euschistus spp. in, on soyabean 3526	of soyabean, effects on pests and natural
uth Africa Acacia arabica in, insect enemies of 5498	Heliothis spp. in, on cotton 2516 H. virescens in, on cotton 3552	enemies of 460 of sunflower, effects on Napomyza
Aceria sheldoni in, on Citrus 5080	H. zea in	lateralis of 5120
agricultural entomology in 695	on cotton 3552	Sowthistle yellow vein virus, aphid
Andaspis formicarum in 399	on tomato 2030	transmission of 5437
Aonidiella aurantii in, on Citrus 981, 1989, 1990, 2452, 4568, 5080	Manduca sexta in, on tobacco 5729 Nezara viridula in, on soyabean 3526	Soyabean (Glycine max) Acrosternum hilare on
Aphidoidea in, on <i>Pinus</i> 2597	Solenopsis invicta in 242	damage caused by 456
Calacarus citrifolii in, on banana 2982	Sphenophorus callosus in, on maize 2897	varietal preferences of 3526
Capys spp. in 18	Spodoptera exigua in, on cotton 3552	aldrin in, residues of 1519
Ceratopogonidae in, on avocado 4557 Chilo partellus in, on sorghum 1413	Synanthedon exitiosa in 3485 S. pictipes in 3485	Anticarsia gemmatalis on assessing infestations of 2014
Cinara cronartii in, on Pinus 557	vegetable fields in, parasitic insects in	development of 1517
Citrus in	2984	in Brazil 3007, 5672
arthropod pests of 2973	South Dakota	in Colombia 6522
pest control on 2452, 2974, 4007 Clavigralla horrida in 698	Amara spp. in, natural enemies of 5467 Diabrotica spp. in 6253	in Florida 5665 in Louisiana 5665
Coccidae in 4205	D. longicornis in, on maize 6255	in Mississippi 5665
on Acacia 258	D. virgifera in 6248	Aphis craccivora on, in Illinois 6188
Cryptophlebia leucotreta in	on maize 6247	arthropod pests of
on Citrus 5620 on orange 982	Melanoplus spp. in 820 Prionoxystus robiniae in, on Fraxinus	assessing infestations of 2017 in Brazil 6519
on peach 6444	3085	in Egypt 4357
Cryptotermes brevis in 5002	South Korea	in Indiana 2850
Diaspis echinocacti in, natural enemies of	Cerambycidae in 4301	in Japan 1513
4988 Doratopteryx plumigera in 688	Chironomidae in, in rice-fields 3965 Hyphantria cunea in 1127	in Mexico 1015 in Missouri 459
Eldana spp. in, on sugar-cane 1373	Nephotettix cincticeps in, on rice 910	in Queensland 2018
E. saccharina in	Nilaparvata lugens in, on rice 2381, 2383	in Romania 2849
natural enemies of 1378	soyabean in, pest control on 6193	in Swaziland 2160
on sugar-cane 1374, 1376, 1382 Encyrtidae in 4988	Thecodiplosis japonensis in, natural enemies of 5737	in Zimbabwe 4720 island biogeographic theory applied to
Forest pests in 5169	South-West Africa, Encyrtidae in 4988	2311
Gascardia destructor in, natural enemies	Sowing date	Autographa precationis on, development
of 4988	of barley, effects on Oscinella frit of	of 458
Heliothis armigera in, on cotton 489 Hercinothrips bicinctus in, on banana	3361 of cotton	Beauveria bassiana in, persistence of 3514
988, 2982	effects on Amrasca biguttula of 2039	Bemisia tabaci on, in Brazil 2015
Heteronychus arator in, on potato 6541	effects on bollworms of 4885	carbaryl in, residues of 1521
Lepidosaphes beckii in, natural enemies of	effects on Pectinophora gossypiella of	Cerotoma trifurcata on assessing infestations of 4589
1890 Metopolophium dirhodum in, on grain	2039 effects on Phycita infusella of 2039	development of 6190
crops 6360	effects on Sylepta derogata of 2538	distribution pattern of 4588, 4589
Microthrix inconspicuella in, on Emex	of flax, effects on Dasineura lini of 2550	diurnal fluctuations in 2485
australis 4481	of grain crops, effects on Syringopais	in North Carolina 1509, 1510 Colaspis brunnea on, in Louisiana 4310
nites in, on pineapple 4013 Opuntia aurantiaca in	of Lolium multiflorum, effects on	C. louisianae on, in Louisiana 4310
Cactoblastis cactorum for biological	Hyperodes bonariensis of 1419	Cyrtacanthacris guttulosa on, in New
control of 4480	of maize	South Wales 822
Dactylopius austrinus for biological	effects on Agrotis ipsilon of 1923 effects on beneficial insects of 1653	Diacrisia obliqua on development of 1820
control of 4480 Tucumania tapiacola for biological	effects on Diabrotica longicornis of	feeding by 2208
control of 4480	5540	dieldrin in, residues of 1519

```
Soyabean contd.
                                                                                         Soyabean contd.
                                                                                                                                                                                   Spain contd.
                                                                                              soyabean mosaic virus in, aphid
                                                                                                                                                                                       Aleurothrixus floccosus in, on Citrus
    Edessa meditabunda on, damage caused
                                                                                                                                                                                              3493, 3494, 3495, 3496, 3497, 3498,
          by 6521
                                                                                                    transmission of 6199
    Empoasca fabae on
                                                                                              Spodoptera litura on, lipid utilisation by
                                                                                                                                                                                              3499
        in Indiana 6197
                                                                                                                                                                                       Aphidoidea in 3780
Aphis gossypii in, on sugar-beet 6532
    varietal preferences of 2012
endosulfan in, residues of 1519
                                                                                              subterranean clover red leaf virus in, in
                                                                                                    New Zealand 1504
                                                                                                                                                                                        Carabidae in 1843
                                                                                                                                                                                        Catocala promissa in, on Quercus 4092
Cicadellidae in, on Citrus 3505
    Epilachna varivestis on
                                                                                               Tetranychus pacificus on, resistance to,
         assessing infestations of 4887
                                                                                                    evaluation of 1522
         development of 2480, 6517 effects of cropping systems on
                                                                                                                                                                                       Cydia molesta in, on peach 2967
Drosophila spp. in, in woodland 5
Euleia heraclei in, on celery 2463
                                                                                              T. urticae on, resistance to, evaluation of
                                                                                                    1522
        effects of plant growth stage on 1012, 2011, 2481
                                                                                              Xenochalepus horni on, damage caused by
                                                                                                                                                                                       Eurygaster spp. in, on grain crops 3360
Formicidae in 3836
Hippodamini in 791
Lepidoptera in 5412
                                                                                                    3006
    feeding by 6517
in Indiana 6189, 6192, 6194
in Maryland 4028
varietal preferences of 2011
Euschistus spp. on, varietal preferences of
                                                                                          Soyabean dwarf virus 1504
                                                                                          Soyabean fields
                                                                                              arthropods in, effects of pest control
practices on 459
Orius insidiosus in, distribution pattern of
                                                                                                                                                                                           on rice 3388
                                                                                                                                                                                        Myzus persicae in, on sugar-beet 6532
Nitidulini in 697
                                                                                                    6195
          3526
                                                                                                                                                                                       Phytoecia spp. in 714
Prays oleae in
    E. servus on, damage caused by 456
E. tristigmus on, damage caused by 456
Frankliniella tritici on
                                                                                              parasitic insects in
in Andhra Pradesh 6310
in Kenya 1520
                                                                                                                                                                                           natural enemies of 984
on olive 405
   assessing infestations of 1511
distribution pattern of 1511
Graphognathus peregrinus on, oviposition
by 3760
                                                                                             Podisus maculiventris in, effects of insecticides on 4586 predatory arthropods in effects of cultural practices on 460 in Iowa 6196
                                                                                                                                                                                       Rhagoletis cerasi in 817
Rhizoecus cacticans in, on cacti 5134
Sitona tenuis in 1763
    guazatine in, toxicity of 4035, 6149
Heliothis spp. on, in Texas 1045
H. punctigera on, in New South Wales
                                                                                                                                                                                        Spodoptera cilium in, on Cynodon 344
                                                                                              predatory insects in
effects of carbaryl on 6194
                                                                                                                                                                                        Stomorhina lunata in
                                                                                                                                                                                                                                 10
                                                                                                                                                                                        Trypetidae in 817
Vespidae in 3835
                                                                                                  in Kenya 1520
in New South Wales
sampling of 2017
                                                                                                                                                                                   Vespula rufa in 3828
Spalangia endius
    H. virescens on, artificial infestation with
          4587
    H. zea on
                                                                                              Telenomus podisi in, in Kentucky
                                                                                                                                                                                       in India 921
        artificial infestation with 4587 distribution pattern of 2013 effects of cultural practices on in North Carolina 2041 resistance to 2486
                                                                                          Soyabean flour
                                                                                                                                                                                       parasitising, Atherigona soccata, in
Maharashtra 921
                                                                                         diet component for

Dermestes spp. 3616

Heliothis spp. 179

H. virescens 6316

Soyabean hay, DDT in, residues of 1519

Soyabean hydrolysate, diet component for,

Epichoristodes acerbella 501

Soyabean meal
                                                                                                                                                                                   Spalangiinae, in Indian subcontinent 702
                                                                                                                                                                                   Spalgis epius
                                                                                                                                                                                       in Bangladesh 5087
    insect pests of
                                                                                                                                                                                        preying on
   insect pests of
damage caused by 462
in Egypt 1013
in Kenya 1520
in Madhya Pradesh 2487
in New South Wales 1518
in Sarawak 2651
in USA 1484
insecticides in, not affecting nitrogen
fixation 2141
legume vellows virus in infectivity of
                                                                                                                                                                                  preying on
Ceroplastes pseudoceriferus, in
Bangladesh 5087
Chloropulvinaria polygonata, in
Bangladesh 5087
Spanagonicus albofasciatus, on cotton,
damage caused by 2512, 3549
spaniandra, Trybliographa (see T.
albipennis)
Sparassus lamarcki
in India 2821
                                                                                              bait component for, leaf-cutting ants
                                                                                                    4430
                                                                                              diet component for
                                                                                              Dichocrocis punctiferalis 4877
Lymantria dispar 4886
mites in, extracting of 5220
Trogoderma granarium in, development of 5830, 6667
    legume yellows virus in, infectivity of 3003
                                                                                                                                                                                       in India 2821
                                                                                                                                                                                       in coconut plantations, in Karnataka
    Melanoplus spp. on, in USA 820
M. femurrubrum on, effects of cropping
systems on 5673
                                                                                          Soyabean mosaic virus
                                                                                                                                                                                       preyed on by, Coccinellidae, in Karnatal
2821
                                                                                                  Aphis craccivora, transmission of 6188
                                                                                                                                                                                 Sparrow, house (see Passer domesticus)
Sparrow, tree (see Passer montanus)
preying on, Malacosoma neustria, in
Japan 5596
spartiia, Eriophyes
Spartina alterniflora
arthropods on, island biogeographic
theory applied to 2311
sap-feeding insects on, richness and
diversity of guild of 4528
Spartina patens, Hemiptera on, effects of
patch size on guilds of 925
Spartium junceum, Eriophyes spartii on,
damage caused by 2050
Spathimeigenia hylotomae
in USA 4485
parasitising, Arge humeralis, in Florida
4485
                                                                                                                                                                                   Sparrow, house (see Passer domesticus)
    Nezara viridula on
                                                                                                  Hysteroneura setariae, transmission of
        damage caused by 456 diseases transmitted by 4037
                                                                                                  Macrosiphum euphorbiae, transmission
         resistance to 3526
                                                                                                        of 6188
    Nupserha nitidior on, varietal preferences of 6516
                                                                                                  Metopolophium dirhodum, transmission of 1014
    Oberea brevis on
                                                                                                  Myzus persicae, transmission of 1014, 6188
    damage caused by 5106
varietal preferences of 5106
Pentatomidae on
damage caused by 1516
in Kentucky 2415
in Louisiana 4586
                                                                                                  Rhopalosiphum maidis, transmission of 6188
                                                                                                       padi, transmission of 6188
                                                                                                  Schizaphis graminum, transmission of 1014
                                                                                         soyabean, aphid transmission of 6199
Soyabean oil
    pest control on 459, 1015, 1513, 2849,
          4720, 5496
        biological 1646, 5952
insecticides for 2487
thresholds for 2018
                                                                                                  Sitophilus oryzae, in stored grain 6658
Sitotroga cerealella, in stored grain
6658
    pest management on 1141, 6193
                                                                                                                                                                                             4485
                                                                                              bait component for, Solenopsis invicta
    Piezodorus guildinii on
                                                                                                                                                                                   Spathius impus
   Piezodorus guildinii on damage caused by 1514, 1515 oviposition by 2016

Plathypena scabra on effects of cultural practices on 460 feeding by, model 4036 in Arkansas 461 in Indiana 6197 in Iowa 4035 in North Carolina 2041

Plusia spp. on
                                                                                                    3838
                                                                                                                                                                                       host preferences in 5151
in USA 5151
                                                                                              diet component for
                                                                                                  Mamestra brassicae 6143
                                                                                                                                                                                       parasitising
                                                                                         Mamestra brassicae 6143

Mythimna separata 6143

Soyabean protein, Tribolium castaneum in, development of 6098

Soyabean (stored seeds) insect pests of, damage caused by 5224 pest control in, insecticide application methods for 2784
                                                                                                                                                                                           Dendroctonus frontalis, in Georgia
(USA) 5151
                                                                                                                                                                                           Ips grandicollis, in Georgia (USA)
5151
                                                                                                                                                                                           Phloeosinus dentatus, in Georgia (USA 5151
   in North Caronna 2041

Plusia spp. on
assessing infestations of 2014
in Brazil 3007, 5672

Popillia japonica on, in Ohio 6203

Pseudoplusia includens on
development of 458
effects of cultural practices on 460
feeding preferences of 6201

Sericulturins variabilis on
                                                                                                                                                                                   Spathius pallidus
host preferences in 5151
in USA 5151
                                                                                             Sitophilus zeamais in, not ovipositing 2086
                                                                                                                                                                                       Dendroctonus frontalis, in Georgia
(USA) 5151
Ips grandicollis, in Georgia (USA)
5151
                                                                                          Soyabean straw, carbaryl in, residues of
                                                                                               1521
                                                                                          Soyabean yeast spot (see also Nematospora
                                                                                               coryli)
                                                                                          Spain
    Sericothrips variabilis on
                                                                                              Acridoidea in 3833
                                                                                                                                                                                   spatulifera, Forcipomyia
         assessing infestations of
                                                                                              Aelia spp. in, on grain crops 3366
                                                                                                                                                                                   speciosa, Orphulella (see Orphulina
        distribution pattern of 1511, 6195
                                                                                              A. rostrata in, natural enemies of 3366
                                                                                                                                                                                         speciosa)
```

, , , , , , , , , , , , , , , , , , , ,		1140
eciosa, Orphulina (Orphulella)	Spices contd.	Spodoptera contd.
eciosus, Sphecius	Lasioderma serricorne in, development of	in Queensland 2671
ectabilis, Dendrolimus	2608	on Cicer arietinum, in Mexico 1671
vectra, Cicadella (see Cofana spectra)	Spider (see Araneae)	on cotton, in Honduras 3557
ectra, Cofana (Cicadella; Tettigella;	Spilochalcis flavopicta	on Cynodon dactylon, assessing
Tettigoniella)	emergence in 1567	infestations of 2412
pectra, Tettigella (see Cofana spectra)	in USA 1567	on rice, in Colombia 3940
pectra, Tettigoniella (see Cofana spectra)	parasitising, Rhyacionia frustrana, in	Paecilomyces tenuipes in, in Colombia
vecularius, in India 4197 veratus, Reticulitermes	Georgia (USA) 1567 Spilonota ocellana	3940
ermaphaga, Eriophyes	in Poland 3476, 3477, 3478	Spodoptera cilium attraction of, to S. triturata 1267
permidine (see 1,4-Butanediamine, N-(3-	in Yugoslavia 5793	biology of 3444
aminopropyl)-)	on apple, in Poland 3476, 3477, 3478	control of, insecticides for 3444
ermophagi, Uscana	on Quercus borealis, in Yugoslavia 5793	descriptions of 3444
permophagus	Spilosoma luteum, on Senecio jacobaea,	distribution of 3444
in India 4197	uptake of pyrrolizidine alkaloids by	food-plants of 3444
in Lebanon 4298	5450 Spilostethus pandurus	in Spain 3444
permophagus sericeus	biology of 3034	in Zimbabwe 1267 on Cynodon dactylon, in Spain 3444
in Italy 6018	food-plants of 3034	sex attraction in 1267
parasitised by, Uscana spermophagi, in	in India 3034	taxonomy of 3444
Italy 6018	on Calotropis, in India 3034	Spodoptera compta, in India 2756
essivtsevi, Ipideurytoma	on roselle, in India 3034	Spodoptera depravata
haera, Asphondylia phaericus gibboides	on sesame, in India 3034	biology of 4521
biology of 4675	on Vernonia cinerea, in India 3034 Spinach (Spinacia oleracea)	in Japan 4521 on grasses, in Honshu 4521
in West Germany 3107, 4675	fensulfothion in, residues of 5090	Spodoptera eridania
in dwellings, in West Germany 3107	insect pests of, in Quebec 269	Beauveria bassiana in, effects on
in medicinal tea, in West Germany 4675	lindane in, residues of 3209	hemolymph proteins of 59
haeroides, Peritelus	Myzus persicae on, in Japan 4733	control of
phaerophoria, parasitised by,	Phyllotreta undulata on, not feeding	antifeedants for 662
Ichneumonidae, in Palaearctic region	4018	insecticide-fungicide mixtures for 4613
3346 phaerophoria rueppellii, development in,	Tetranychus cinnabarinus on, in Haryana 267	insecticides for 657 cytochromes in 725, 2719
effects of humidity and temperature on	Spinacia, Tetanops myopaeformis on,	digestive enzymes in 41
3865	development of 2491	enzymes in 42
phaerophoria scripta	Spinacia oleracea (see Spinach)	food-plant growth form as affecting 428:
development in, effects of humidity and	spinifera, Agrotis (Scotia)	hemolymph in, lysozyme activity in 42
temperature on 3865	spinifera, Scotia (see Agrotis spinifera)	in USA 4613
in India 2820	spiniger, Geotrupes	on Chrysanthemum, in Florida 4613
in Iraq 3451 in lucerne fields, in Iraq 3451	spinki, Steneotarsonemus spinosus, Ceratocapsus	on forage legumes, feeding by 2923 on Lotus corniculatus, effects of
preying on, Macrosiphum rosae, in India	spinosus, Jalysus	cyanogenic glycosides on 6239
2820	spinulosa, Loxosceles	Spodoptera exempta
phaerostilba aurantiicola, in, Pseudaonidia	Ŝpiraea (aestivation in 774
duplex, in Taiwan 2046	Aphis citricola on 941	biology of 1938, 2156, 3242
haerula, Cybocephalus	insect pests of, in USSR 1556	breeding areas of 79
phecidae	Pandemis heparana on, in British	control of 1278, 5905
book, corrections to 3 in New Zealand 4456	Columbia 950 pest control on 1556	antifeedants for 662 international project for 1172
plants visited by, in Uzbekistan 3337	spiraea, Calligrapha	diapause in 774
phecius speciosus	Spiraea prunifolia, phenology of, correlation	dispersal of 3573
prey weight and sex of offspring in 1889	of Agromyza frontella development and	feeding behaviour in, developmental
preying on	4884	changes in 5338
Tibicen canicularis 1889	Spiraea ulmaria, Bryobia cristata on, in UK	illustrations of 1938
T. lyricen 1889	1451 spiraecola, Aphis (see A. citricola)	in Australia 1938 in East Africa 2653
hegeus, Enoclerus phegigaster, parasitising, Napomyza	Spiroplasma citri	in Ethiopia 5918
lateralis, in Bulgaria 5120	control of, vector control for 5630	in Indonesia 3415
phenophorus callosus	in	in Kenya 79, 774, 1132, 1172, 4496,
control of, insecticides for 2897	Citrus spp. 6668	4847, 5909, 5918
in USA 2897	in California 5630	in Malawi 1172
on maize, in South Carolina 2897	in Spain 3505	in Tanzania 1172, 4847, 5909, 5918
phenoptera konbirensis	Laodelphax striatella, in Morocco 1470	in Uganda 5909 in Yemen 1172
control of 2846 in India 2846	Neoaliturus haematoceps, in Morocco	in Zimbabwe 5908
phenoraia bicolor	1470, 6668	in pastures, in Kenya 4496
in India 2820	N. tenellus, transmission of 5630	migration in 4496, 5905, 5908
preying on, Macrosiphum rosae, in India	orange, in Morocco 1470	nuclear polyhedrosis virus in,
2820	Psammotettix striatus, in Morocco	pathogenicity of 1132
phex maxillosus (see S. rufocinctus)	1470 Vinca rosea 6668	on rice, in Indonesia 3415 on sorghum, damage caused by 1938
phex rufocinctus in USSR 3337	indicator plants for 5630	outbreaks of 5905, 5908
plants visited by, in Uzbekistan 3337	Spiroplasmataceae	forecasting of 5909, 5918
phinges, in Italy 1309	in	post-emergence flight in 4496
phingidae	insects 6668	research on, funded by UK 6002
in British Isles 163	plants 6668	traps for 5918
in Saudi Arabia 1844	spirorbis, Tegonotus	wing length in, variation of 4847 Spodoptera exigua
scent organs in 163 phingonotus octofasciatus	spissicornis, Coleophora Spissistilus, taxonomy of 2	activity in, diel rhythm of 98
in Iraq 4453	Spissistilus festinus	control of 1286
parasitised by, mites, in Iraq 4453	in USA 1484	cultural 1013
phodromantis lineola	on soyabean, in USA 1484	growth regulators for 2985
in Nigeria 6514	spissula, Chalicodoma	insecticide-fungicide mixtures for 4613
preying on, Maruca testulalis, in Nigeria	splendana, Cydia (Laspeyresia)	insecticides for 1486, 2297, 2302,
6514	splendana, Laspeyresia (see Cydia	2310, 3020, 3552, 4906 threshold for 1486
phyracephala hearseiana, head capsule in	splendana) splendidula, Calleida	traps for 5646
2674 pice plants, pests of, in Kerala 1902	Spodoptera	in Egypt 1013, 2500, 4327, 4328, 4331
pices plants, pests of, in Kerala 1902	cell cultures from 5433	in India 3020
fumigants in, residues of 585	control of	in Japan 4287
insect pests of, in Egypt 2607	biological 1671	in Mexico 1647, 1654, 2297, 2302
insecticides in, residues of 585	insecticides for 1671	in Netherlands 220

Cnadantara avigue contd	Spodoptera frugiperda contd.	Spodoptera littoralis contd.
Spodoptera exigua contd.	parasitised by contd.	mid-gut in, uptake of Neutral Red fro.
in Spain 3388	*	4361
in USA 480, 492, 1286, 1486, 3552,	Trichogramma spp., in Mexico 2303	
4613, 4906, 5646	pupal development in, effects of	monocrotophos resistance in, mechanis
melanotic pupa mutant of 5350	temperature on 77	of 2137
Nosema bombycis in, pathogenicity of	seasonal abundance of 1647	natural enemies of, effects of insecticio
5241	taxonomy of, characters distinguishing	on 4065 to 50.5 Castalate to
on castor, development of 4329	Heliothis larvae and 6023	nervous system in 4376
on Chrysanthemum	traps for 4505	Nomuraea rileyi in
in Florida 4613	Spodoptera latifascia 3557	pathogenicity for eggs of 6672
in Netherlands 220	Spodoptera littoralis	pathogenicity of, effects of temperat
on Cicer arietinum, in Mexico 2302	amino acids in, effects of insecticides on	on 6680 specific kind to the
on cotton	4362, 4363	nuclear polyhedrosis virus in
development of 4329	attractants for 1742	effects on hemolymph amino acids
in California 480	cell cultures from, monitoring of virus	6686
in Egypt 4327	production in 2617	pathogenicity of 3149
in South Carolina 3552	chlorpyrifos resistance in, mechanisms of	on Citrus, in Egypt 976, 977
interactions of carbohydrate balance	4364	on cotton
and 2040 on lettuce	control of	effects of gossypol content on 485
	antifeedants for 662, 4371, 4386, 4390	in Egypt 3822, 4065 in Turkey 4063
in Arizona 5646	biological 3149, 3822, 6680	on maize, in Libya 2368
in California 1486	cultural 1013, 5581	on rice, in Spain 3388
on lucerne, in Mexico 2297 on maize	growth regulators for 223, 681, 3230,	on soyabean, in Egypt 1013
	4065, 4365, 4367, 4374, 4378, 4382,	on sugar-beet, damage caused by 248
development of 4329	6727	on tomato, in Egypt 2500
in Egypt 4327 in Mexico 1654	evaluating of 4381	on Trifolium, effects of irrigation on
	insecticide-antifeedant mixtures for	5581
on potato in Maharashtra 3020	4386, 4390	on Trifolium alexandrinum, in Egypt
in Virginia 4906	insecticide-growth regulator mixtures	3822
on rice, in Spain 3388	for 4065, 4374, 4385	Paecilomyces fumosoroseus in
on soyabean, in Egypt 1013	insecticides for 223, 224, 225, 226,	pathogenicity for eggs of 6672
on tomato, in Egypt 2500	486, 487, 652, 976, 977, 2137, 2634,	pathogenicity of, effects of temperat
overwintering in 492	3045, 3215, 3820, 3821, 4063, 4065,	on 6680
parasitised by, Euplectrus spp., in Mexico	4156, 4380, 4382, 4383, 4386, 4387,	parasites of, in Egypt 4477
1654	4389, 4390, 4392, 4393, 5718, 5723	parasitised by, Microplitis rufiventris
pest status of 4287	evaluating of 4381	5426
population dynamics of 4331	integrated 2489	permethrin in, effects on nervous syste
predators of, effects of insecticides on	mating disruption for 1740, 4698	of 6715
480	cypermethrin in, effects on nervous system	permethrin resistance in, and cross-
preyed on by, Nabis americoferus, in	of 6715	resistance 4379
California 480	DDT in, effects on hemolymph amino	phagostimulants for, testing of 1720
seasonal abundance of 1647, 2500, 4327,	acids of 3818	phosfolan resistance in, mechanisms of
4328, 4331	DDT resistance in, development of 4704	4364
Spodoptera frugiperda	diflubenzuron in	predators of, effects of insecticides on
activity in, diel rhythm of 98	effects on egg respiration of 6727	2634
attractants for 3886	effects on reproduction of 682	preyed on by, Chrysopa boninensis 3
Bacillus cereus in, in Cuba 2107	morphogenetic activity of 681	profenofos in, mode of action of 213
Beauveria bassiana in, effects on	enzymes in 57, 486, 2137, 4156, 4359,	pyrethroid resistance in, mechanisms of
hemolymph proteins of 59	4360, 4364, 6710	6715
biology of 2303	EPPO data sheet on 4703	pyrethroids in
biology of 2303 control of 1276, 1286	fats in, effects of insecticides on 4362,	metabolism of 1691
antifeedants for 5996	4363	penetration of 1691
biological 2303	fentin hydroxide resistance in,	rearing of, diets for 5717
insecticides for 1423, 2304, 2310,	development of 4704	seasonal abundance of 2489, 2500
4383, 4906, 5265	granulosis virus in, characterization of	traps for 1742, 4326
dispersal of 1284	6671	Spodoptera litura
in Brazil 6410	hemolymph in 4372	attractants for 3237 streets from
in Canada 5265	hyperparasitised by, Pteromalus semotus,	Bacillus cereus in, in Maharashtra 20
in Colombia 1025	in Egypt 4477	control of
in Cuba 2107	in Egypt 486, 976, 977, 1013, 2137,	biological 5952 et al la etta
in Honduras 3557	2489, 2500, 3822, 4065, 4326, 4357,	insecticides for 859, 1154, 2473, 30
in Mexico 923, 1647, 1654, 2303, 2304	4386, 4477, 5581	3222, 3708, 3874, 4025, 5259, 52
in USA 77, 1276, 1286, 1423, 2513,	in Israel 1742, 4698	5956
3886, 4505, 4906	in Libya 2368	testing of 2769
iridescent virus in, replication of 4137	in Spain 3388	mating disruption for 3237
nuclear polyhedrosis virus in	in Turkey 4063	timing of 447
culturing of 4680, 4681	insect growth regulators in	in Australia 5952
not pathogenic 609	effects of age on susceptibility to 4365,	in India 1638, 2618, 3050, 3874, 657
proteins in 3690	4367	in Indonesia 3415
replication of 6688	effects of temperature on effects of	in Japan 1300, 3237, 4287
on cassava, in Colombia 1025	4367	in Philippines 447, 449
on cotton	toxicity of 4378	insecticide susceptibility in
in Honduras 3557	insecticide bioassay using 4391	effects of droplet size on 5956
resistance to 2513	insecticide resistance in	effects of formulation on 3222
on crop plants, forecasting infestations of	in Egypt 486	effects of post-treatment temperatur
1276	role of esterases in 57	5259
on Cynodon dactylon, in Florida 1423	selection for 4382	Nosema spp. in 5238
on maize	insecticide susceptibility in	in India 1638
fecundity of 2303	effects of formulation on 3821	nuclear polyhedrosis virus in 5238
in Mexico 1654	effects of selection pressure on 3045	effects on JH of 6684
in Ontario 5265	effects of sequential applications on	on Cajanus cajan, lipid utilisation by
in Virginia 4906	3045	on Carum copticum, in Andhra Prade
resistance to 2304	insecticides in	3874
on rice, in Brazil 6410	effects on offspring of 4375	on castor, lipid utilisation by 52
on sorghum	penetration of cuticle by 4380	on eggplant, lipid utilisation by 52
damage caused by 923, 3417	sublethal effects of 4368, 4376, 4377,	on fennel, in Andhra Pradesh 3874
fecundity of 2303	4388	on fenugreek, in Andhra Pradesh 38
on tomato, in Ontario 5265	larval-pupal transformation in, role of JH	on jute, lipid utilisation by 52
overwintering in 77	in 3280	on Luffa acutangula, lipid utilisation b
parasitised by Chelonus spp., in Mexico 2303	leptophos in, enzyme inhibition by 6710	on Nigella sativa, in Andhra Pradesh
Euplectrus spp., in Mexico 2505	leptophos resistance in, mechanisms of 4360, 4361, 4364	3874
-spreezes oppo in trientee 1037	4300, 4301, 4304	3017

		114
podoptera litura contd.	Squash contd.	Starch
on rice, in Indonesia 3415	Aphis gossypii on	in Abies grandis, effects of Orgyia
on soyabean, lipid utilisation by 52	in Kenya 1503	pseudotsugata on 2586
on sunflower, lipid utilisation by 52	resistance to 5660	in Cheyletus eruditus diet, digestion of
on tobacco in Andhra Pradesh 6574	Aspidiotus nerii on, rearing of 4008	4231
in Karnataka 3050	Aulacophora foveicollis on, varietal preferences of 3001	in Neotermes bosei diet, digestion of 6329
on Vigna radiata	Cecidomyiidae on, in Kenya 1503	in potato, effects of carbofuran on 5114
in Philippines 447	Dacus cucurbitae on, development of	Lepisma saccharina in, in Bermuda 383
varietal preferences of 449	5098	Starling, grey (see Sturnus cineraceus)
parasites of, in Andhra Pradesh 6574	Diacrisia obliqua on, development of	Starvation, of Trogoderma variabile larvae,
parasitised by, Chelonus blackburni 2815	1820	effects of 6184
parathion in, sub-lethal effects of 5977	Diaphania indica on, development of	Statistical methods design of agricultural ecosystems 6136
pest status of 4287 predators of, in Andhra Pradesh 6574	1499 dimethoate in, residues of 4396	models of phytophage-plant systems
preyed on by, Nesidiocoris tenuis 6573	Graphognathus peregrinus on, oviposition	5542
seasonal abundance of 1300	by 3760	population models for harmful insects in
traps for 1300	Icerya purchasi on, development of 3815	agroecosystems 6540
podoptera mauritia	leptophos in, removing residues of 6721	process-oriented approach to ecosystem modelling 6135
control of, insecticides for 927	Liriomyza sativae on, in California 1489	simulation of crop growth and productio
digestive enzymes in 5318	pests of, in Moldavia 3513	6137
excretion in 3271	Planococcus citri on, development of	transformations based on the quantal
in Australia 927 in India 2756	3815	response 5424
in Indonesia 3415	Quadraspidiotus perniciosus on, rearing of 2773	Stator, food-plants of 1584 Stearic acid (see Octadecanoic acid)
in pastures, in New South Wales 927	Tipulidae on, in UK 5044	Stegasta basqueella, on groundnut, damage
on rice, in Indonesia 3415	watermelon mosaic virus in, in Kenya	caused by 4038
podoptera ornithogalli	1503	Stegobium paniceum
control of	watermelon mosaic virus 1 in, aphid	biology of 5801
antifeedants for 4148 traps for 5646	transmission of 1002	descriptions of 5801 in Israel 2087
in USA 5646	watermelon mosaic virus 2 in, aphid	in UK 5801
nuclear polyhedrosis virus in,	transmission of 1002	in West Germany 3106
pathogenicity of 609	Squash (stored fruit), fumigants in, residues of 1121	in dwellings, in West Germany 3106
on lettuce, in Arizona 5646	Squirrel, southern flying (see Glaucomys	in foodstuffs, damage caused by 5801
podoptera sunia 3557 podoptera triturata	volans)	in packaging materials, damage caused by 4678
attractants for 1749	SRA-774 (see Chlorphoxim)	in stored products, in Israel 2087
control of, mating disruption for 1749	Sri Lanka	in timber, in Israel 2087
in Zimbabwe 1267, 1749	Chalcidoidea in 4462	Steinernema, taxonomy of, characters
sex attraction in 1267	Coreidae in 796, 2265	distinguishing Neoaplectana and 5853
sex pheromone of 1749 porotrichum prunosum, in, Gelechia	Cryptolestes klapperichi in, in nutmegs 1106	Steinernema kraussei, cephalic papillae in 5853
hippophaella, in Buryatia 1322	C. pusillus in, in nutmegs 1106	Stelidota geminata
porozoa	Glyptotermes dilatatus in, on tea 4611	distribution of 6236
Adelina tribolii 1618	Nephantis serinopa in, on coconut 5052	in USA 365, 6236
Menzbieria chalcographi 4645	Nilaparvata lugens in, on rice 2381, 4514 Pteromalidae in 702	on strawberry, in Ohio 365, 6236 parasitised by, <i>Microctonus</i> spp., in Ohio
Ramicephalus hirsutus 6305	rice in	365
prays	insect pests of 324, 900	Stellaria, Diogmites missouriensis associate
deposits from, measuring of 168	pest control on 324, 5567	with, in Arkansas 2336
drift of, factors affecting 638	Scoliidae in 1175	Stellaria graminea, arthropods associated with, in USA 5504
equipment for coefficient of variation of applications	Tetragnathidae in 4512 Tinea fictrix in, in coconut fibre 2089	Stellaria media
by 1313	Vigna radiata in, insect pests of 429	arthropods associated with, in USA 550
controlled droplet application 3791	Stachytarpheta jamaicensis, Cryphula spp.	Gastrophysa atrocyanea on, not
hand-held battery-operated ULV	on, in Trinidad 2348	developing 849
sprayer 165 techniques for	stalii, Pectinariophyes Standak (see Aldoxycarb)	Stem borer, on rice, in Bangladesh 319 Steneotarsonemus acuticlavus
ULV	stangli, Temelucha	sp. nov., description of 5019
in USSR 2121	stanleyi, Metaphycus	in USSR 5019
optimum droplet size for 5956	Stannane, (acetyloxy)triphenyl- (see Fentin	on Agropyron, in USSR 5019
sampling and analysis of droplets 3317	acetate) Stannane, hydroxytriphenyl- (see Fentin	Steneotarsonemus agropyri sp. nov., description of 5019
weather as affecting deposit patterns from	hydroxide)	in USSR 5019
629	Stannane, tricyclohexylhydroxy- (see	on Agropyron, in USSR 5019
oretulus, Ataenius	Cyhexatin)	Steneotarsonemus badulini
pringtail (see Collembola) pruce (see Picea)	staphyleae, Rhopalosiphoninus Staphylinidae	sp. nov., description of 5019 in USSR 5019
pruce-bark heaps	in North America, book 2668	on Phragmites australis, in USSR 5019
Coleoptera in, in West Germany 3571	in USSR 1345	Steneotarsonemus furcatus
Hylobius abietis in, in West Germany	in crop fields, effects of insecticides on	in Taiwan 3382
2076	2462	on rice, in Taiwan 3382 Steneotarsonemus laticeps
pruce, eastern (see <i>Picea orientalis</i>) pruce, Engelmann (see <i>Picea engelmannii</i>)	in eucalypt forests, in Victoria 5763 in maize fields, in West Germany 6358	biology of 4612
pruce, Norway (see Picea abies)	in mushroom houses, in Taiwan 2991	control of 4612
pruce, oriental (see Picea orientalis)	in pastures, effects of grazing on 3435	in UK 4612, 5139
pruce, Sitka (see Picea sitchensis)	in pine forests	on Narcissus
pruce, white (see Picea glauca)	in New Zealand 4875 in Victoria 5763	damage caused by 4612 in UK 5139
oumarius, Philaenus oumosum, Stibadium	in rape fields, effects of insecticides on	Steneotarsonemus madecassus, taxonomy o
purge, leafy (see Euphorbia esula)	3516	synonym of S. spinki 1770
outator, Agriotes	in rye fields, in West Germany 6358	Steneotarsonemus pallidus (see Tarsonemu
qualida, Tropinota	in soyabean fields, in Iowa 6196	pallidus) Stangatursanamus sninki
quamosa, Eurytoma	in wheat fields, in Belgium 295 Laboulbeniales in, in Taiwan 1129	Steneotarsonemus spinki biology of 3382
quamosa, Vespula quash (including crookneck, cushaw,	preying on, grain aphids, in England	in Taiwan 3382, 3383
marrow, and pumpkin; see also	1388	on rice
Cucurbita maxima, C. moschata, and C.	traps for 3794, 4875	damage caused by 3382, 3383
pepo)	Staphylinochrous whytei	varietal preferences of 3382 predators of, in Taiwan 3382
Acyrthosiphon kondoi on, in California 1002	attractants for 688 in South Africa 688	Protozoa in, in Taiwan 3382
1002		,

```
Stichtoptychus, taxonomy of 5285
Steneotarsonemus spinki contd.
                                                                                           Steroids contd.
                                                                                                                                                                                       sticticalis, Loxostege (Pyrausta)
sticticalis, Pyrausta (see Loxostege
     taxonomy of, Steneotarsonemus
                                                                                                hydroxy contd.
           madecassus as synonym of 1770
                                                                                                    in Laodelphax striatella, sources of
Stenobracon nicevillei
in India 3910
                                                                                                                                                                                              sticticalis)
                                                                                                           732
                                                                                                                                                                                        stictigrapta, Characoma
                                                                                                     in Trogoderma granarium, sources of
                                                                                                                                                                                       Stictocephala, taxonomy of 2
Stictolobus, taxonomy of 2
     parasitising, Scirpophaga incertulas, in
West Bengal 3910
                                                                                                           3749
                                                                                                in wheat grain, role in resistance to
Stenocoris, on rice, damage caused by
                                                                                                       Tribolium castaneum of 3671
                                                                                                                                                                                       stigma, Chilocorus
                                                                                                                                                                                       stigma, Lepidiota
Stigmasta-5,22-dien-3-ol, (3β,22E)-, in rice,
not utilised by Laodelphax striatella
       6417
                                                                                            Sterols (see Steroids, hydroxy)
Stenocoris elegans
in Nigeria 454, 6575
in cacao plantations, in Nigeria 6575
                                                                                            Stethorus
                                                                                                biology of 6545
in Chile 1445
in Melanesia 2840
     on Vigna unguiculata, in Nigeria 454
                                                                                                                                                                                       Stigmast-5-en-3-ol
Stenocranus minutus
                                                                                                in almond orchards, in California 3994
                                                                                                                                                                                            (3\beta)- (\beta-sitosterol)
                                                                                           preying on
Psylla pyri, in France 5607
Tetranychidae 6545
Stethorus bifidus, preying on, Tetranychidae
2840
     in UK 842
     on Dactylis glomerata, in England 842
                                                                                                                                                                                                in Laodelphax striatella
     parasitised by, Cephalops curtifrons, in
England 842
                                                                                                                                                                                                    permitting development after
                                                                                                                                                                                                          destruction of symbionts 4848
                                                                                                                                                                                      in wheat grain, associated with susceptibility to Tribolium castaneum 3671 fluoroacetate, (3\mu)-, against, Solenopsis invicta 3838
Stigmasterol (see Stigmasta-5,22-dien-3-ol, (3\mu),22E-) stigmasters. Apart in
Stenodemini, in grassland, effects of cutting on 3443
                                                                                                                                                                                                      sources of 732
                                                                                            Stethorus fijiensis
                                                                                           preying on
Oligonychus spp.
Tetranychus spp.
Stethorus gilvifrons
in Iraq 4384
Stenodiplosis bromicola (see Contarinia
       bromicola)
                                                                                                                                       2840
2840
Stenolophus comma
in USA 1394
in maize fields, in Iowa 1394
stenomacrus falcatus, in Poland 3602
Stenomalina, parasitising, Napomyza
lateralis, in Bulgaria 5120
Stenomalus (see Stenomalina)
Stenomalus innonicus
                                                                                                in cotton fields, effects of insecticides on
                                                                                                                                                                                       (35,22B)-)
stigmatera, Agathis
stigmatipennis, Sympiesis
Stigmatomyces crassicollis, in, Leptocera
spp., in Italy 4138
Stigmatomyces hydrelliae, in, Hydrellia spp.,
in Italy 4138
                                                                                                      4384
                                                                                           Stethorus griseus
preying on
Bryobia spp. 2840
Panonychus ulmi 2840
Stenomesius japonicus
in India 5677
in Japan 3056
                                                                                            Stethorus gutierrezi
                                                                                                sp. nov., description of 2840 in New Hebrides 2840
                                                                                                                                                                                       Stigmatomyces scaptomyzae, in, Scaptomyza
spp., in Italy 4138
                                                                                                                                                                                       spp., in Italy 4138
stigmator, Rogas
Stigmella argentipedella (see Ectoedemia
argentipedella)
     parasitising
                                                                                                preying on, Oligonychus spp., in New
Hebrides 2840
         Caloptilia theivora, in Japan 3056
         Stomopteryx subsecivella, in
Maharashtra 5677
                                                                                            Stethorus histrio
Stenomidae, on Quercus, in Missouri 6224
Stenopelmatidae, in New Zealand,
bibliography 4718
Stenopneusticae, in Nearctic region 4985
Stenopsocus, preying on, Saissetia oleae, in
Libya 5083
                                                                                                descriptions of
                                                                                                                                                                                        Stigmella malella
                                                                                                                                                                                       Stigmenta materia
in Italy 209, 6457
on apple, in Italy 6457
Stilobezzia, on cacao, in Colombia 4080
Stilobezzia pruinosa 4080
Stilopotia salicis (see Leucoma salicis)
Stink bug
control of 1433
                                                                                                in Chîle 1445
                                                                                                preying on, Tetranychidae, in Chile 1445
                                                                                           Stethorus incompletus
in New Zealand 2840
                                                                                           preying on, Tetranychidae 2840
Stethorus loxtoni, preying on, Tetranychidae
2840
stenostigmus, Bathyplectes
Stenotaphrum secundatum, Blissus spp. on,
assessing infestations of 2412
                                                                                           Stethorus nigripes, preying on,
Tetranychidae 2840
Stethorus proximus
sp. nov., description of 2840
in New Caledonia 2840
                                                                                                                                                                                            on fruit crops, in Japan 1433
Stephanitis pyri
biology of 4343
in Iraq 4343
on pear, distribution pattern of 4343
seasonal abundance of 4343
                                                                                                                                                                                       Stipa, Tarsonemus pennisetus on, in USSR 5019
                                                                                                                                              2840
                                                                                                                                                                                       Stipa comata, Acrididae on, in Montana
                                                                                                                                                                                              1421
                                                                                                                                                                                       Stirofos (see Tetrachlorvinphos)
Stizolobium deeringianum, Anticarsia
gemmatalis on, in Colombia 6522
Stocking density
                                                                                                preying on, Tetranychus neocaledonicus, in New Caledonia 2840
stephensi, Anopheles
stephensiana, Cnephasia
Steppe, Acrididae in, in USSR 2799
                                                                                           Stethorus punctillum
in France 379
stercoraria, Scathophaga
                                                                                                in apple orchards, in France 379
                                                                                                                                                                                            of cattle, effects on pasture pests of 2920
                                                                                                                                                                                            of sheep
stercorarius, Geotrupes
                                                                                                traps for 379
                                                                                           in USA 2963, 4919
in apple orchards
in New York 2963
in Virginia 4919
preyed on by, Araneae 4919
Stethorus siphonulus, preying on,
Tetranychidae 2840
Stethorus vagans, preving on, Tet
stercorea, Typhaea
Sterculia apetala, Dysdercus bimaculatus on,
                                                                                                                                                                                                effects on arthropods in pastures of
                                                                                                                                                                                                      3435, 3437
in Central America 113
Stereum frustulatum, in, Quercus spp.,
                                                                                                                                                                                                effects on insect pests of pastures of
                                                                                                                                                                                                      5887
                                                                                                                                                                                       effects on pasture pests of 2920
Stollia hornigi (see Coleophora hornigi)
Stolotermes victoriensis, gut in, redox
potential of 4754
       associated with wood-boring insects
Sterile-insect release
     against
                                                                                                                                                                                       Stomopteryx nerteria (see S. subsecivella)
Stomopteryx subsecivella
control of, insecticides for 2487, 6526
in India 1427, 2487, 5677, 6526
         Anastrepha ludens 4796
Anthonomus grandis 2544
Ceratitis capitata 1670, 4563, 4796,
                                                                                            Stethorus vagans, preying on, Tetranychidae 2840
                                                                                           Sthenarus rotermundi
in Canada 2069
in USA 2069
               6480
                                                                                                                                                                                           on groundnut
in Madhya Pradesh 2487
in Maharashtra 5677
in West Bengal 6526
on Trifolium alexandrinum, damage
         Cryptophlebia leucotreta 5620
Cydia pomonella 967, 2444, 4796, 5251, 5988
                                                                                                on Populus
in Canada 2069
                                                                                           in Pennsylvania 2069

Sthenias grisator
control of, insecticides for 378
in India 378
         Dacus cucurbitae
         D. oleae 206, 987
                                                                                                                                                                                            caused by 1427
parasites of, in Maharashtra 5677
         Lymantria dispar 577
         Pectinophora gossypiella 3043, 3550 pests of Citrus 4007
Tribolium castaneum 5221
                                                                                            on mulberry, in India 378
Sthenias madurae
in India 2576
                                                                                                                                                                                       Stomorhina lunata
                                                                                                                                                                                            descriptions of
     genetic research in 4796
                                                                                                                                                                                            distribution of
                                                                                           on Moghania macrophylla, damage caused by 2576
Sthenopis quadriguttatus
control of, insecticides for 511
descriptions of 511
in Canada 511
on Populus, damage caused by 511
Stibadium spumosum
in USA 1033
on sunflower, in Oregon 1033
Sticholotinae, Perilitus coccinellae not parasitising 1886
Sticholotis madagassa, preying on,
Melanaspis glomerata, and biological
control using, in Andhra Pradesh 4498
     models of 633
                                                                                                on Moghania macrophylla, damage caused
                                                                                                                                                                                            in Spain 10
parthenogenesis encouraged by 4799 Sternocera, on Acacia, in Africa 21
                                                                                                                                                                                                characters distinguishing S. selgae and
Sternochetus mangiferae control of
                                                                                                                                                                                       neotype for 10

Stomorhina selgae
nom. nov., description of 10
in Bermuda 10
taxonomy of, characters distinguishing S.
lunata and 10
control of cultural 4011 insecticides for 4011 \gamma-irradiation for 4011 in South Africa 4011 on mango, damage caused by 4011 steroids
                                                                                                                                                                                       Stored products
Anobiidae in, in Israel 2087
arthropod pests of
in Austria 1756
in Canada 2792, 5999
Steroids
    hydroxy in Dermestes diets, requirement for
               3616
```

Stored products contd.	Strawberry contd.	Structural wood contd.
arthropod pests of contd.		
	Orthosia hibisci on, damage caused by	Dermestes lardarius in
in New South Wales 2161	1439	in Manitoba 596
in Tasmania 5416	Otiorhynchus rugosostriatus on, in	in UK 1614
in West Germany 2162	Tasmania 1441	D. maculatus in, in UK 1614
in West Malaysia 4723	O. sulcatus on	Heterotermes indicola in, in Nepal 4673
in Zimbabwe 4720		
	damage caused by 215	Hylotrupes bajulus in
insect pests of	in Australia 5947	in England 3138
avoiding insecticide resistance in 5804	in Tasmania 1441	in West Germany 4672
changes in status of 3334	pest control on 995, 2433	Isoptera in, in USSR 118
detecting of 3629, 3643	Phlogophora meticulosa on, in England	Odontotermes distans in, in Nepal 4673
determining origin of infestations 3122	4721	pest control in, insecticides for 2097
effects of environmental factors on		Priobium sericeum in, in Manitoba 596
	Pleuroloma flavipes on 4731	termite control in 4463
3112	Stelidota geminata on, in Ohio 365, 6236	
extracting of 3668	Tarsonemus pallidus on	Xyletinus peltatus in
fumigant resistance in 3109	damage caused by 6450	damage caused by 3137
future of 3626	in England 5053	in Mississippi 3136
imported into New South Wales 1606	Tetranychus urticae on	Strumigenys rogeri
in Gambia 4182		in Canada 4428
	damage caused by 3986, 3987	in hothouses, in Manitoba 4428
in Hawaii 4657	effects of 2426	Strymon melinus
in India 2091, 3623	in Australia 5947	in USA 86
in Pakistan 3628	in Florida 1440	on Petunia, in Maryland 86
in South Africa 695	in UK 268	
insecticide resistance in 3109, 3637	resistance to 6449	predators of, deflection of 86
		stupidus, Pachysomoides
role in fungal damage of 3649	Trialeurodes vaporariorum on, in Italy	Sturmia scutellata (see Blepharipa
surveillance for 3117, 3121	5585	scutellata)
insecticides in, residues of, Japanese	viruses in, in Finland 4546	Sturmiopsis inferens
tolerances for 6722	Strawberry crinkle virus, aphid transmission	in Ghana, introductions of 4497
Isoptera in, in Nigeria 5486	of 5437	parasitising
Lepidoptera in, in Norway 4110	Strawberry fields	Chilo auricilius 862
losses of, assessing of 3625	Harpalus rufipes in, in England 5054	Eldana saccharina 1376
pest control in 2091, 3110, 3120, 3623,	Heteroptera in, in Sweden 5584	preyed on by, Chilo auricilius 862
3624, 3628, 3644, 6644		
	predatory arthropods in, in California	Sturmiopsis parasitica
biological 3632	3987	in Ghana 4497
integrated 3627	Typhlodromus brisbanensis in, in	parasitising
review 3630	Queensland 1957	Eldana saccharina, in Ghana 4497
international collaboration for 3109	Strawberry (stored fruit), pest control in,	Sesamia spp., in Ghana 4497
irradiation for 3641	fumigants for 5826	Sturnus cineraceus, preying on, Malacosom
low temperatures for 3669	Streams, Micronecta scutellaris in, in India	neustria, in Japan 1296, 5596
mating disruption for 3629	1358	Sturnus vulgaris, preying on, Cerapteryx
microencapsulated pesticides for 3660	Streams, woodland, aminocarb in, non-target	graminis, in Newfoundland 928
	effects of 6621	
pesticides for 2629, 2630, 4114		Stygnocoris pedestris
plant extracts for 637, 2138	Street trees	in UK 3443
protective atmospheres for 3640	Cossus cossus on, in Netherlands 5772	in grassland, effects of cutting on 3443
review 2084	insect pests of	stylata, Urophora
traditional methods of 3622	in Ukraine 5183	stylatus, Doratura
traps for 1741	in Yugoslavia 2078	stylifera, Forcipomyia
use of chemicals in 3634	Strepsiptera, parasitising, pests of rice, in	Stylopidae, parasitising, rice hoppers, in
use of ozone in 3631	Sarawak 2651	Thailand 911
pests of	Streptococcus, in, Anthonomus grandis	Styrax, Diurnea spp. on, in Japan 4640
in British Columbia 4178	3546	Styrene (see Benzene, ethenyl-)
review 2084	Streptococcus cremoris, in, Reticulitermes	subandinus, Apanteles
Phycitinae in, imported into UK 3658	flavipes, in hind-gut 4464	subapterus, Tmetothrips
Ptinus fur in, in West Germany 3107	Streptococcus faecalis	subarcticum, Macrosiphum
P. tectus in, in West Germany 3107	in	subcervinella, Opogona (see O. sacchari)
Stegobium paniceum in, in West Germany	Galleria mellonella	Subcoccinella vigintiquattuorpunctata
3106	effects of antibiotics on 5850	biology of 1431
termite control in 4463	preventing infection by other bacteria	book 1431
stragulata, Thera	4134	parasitised by, Coccipolipus epilachnae
Strangalia aethiops (see Leptura aethiops)	Streptococcus lactis, in, Reticulitermes	457
	flavipes, in hind-gut 4464	subcoleoptrata, Alophora (Phasia)
strataria, Biston		subcoleoptrata, Phasia (see Alophora
Strategus	Streptomyces chitinase in 4895	subcoleoptrata, Fliasia (see Alophora subcoleoptrata)
biology of, review 5439		
control of, review 5439	in, Lymantria dispar 4895	subcostatum, Basilepta (Nodostoma)
Strategus antaeus	striata, Medetera	subcostatum, Nodostoma (see Basilepta
in USA 3445	striatella, Laodelphax	subcostatum)
on Cynodon magennisii, in Florida 3445	striaticeps, Aporophlebus (Microphanurus)	subelongatus, Ips
Strawberry	striaticeps, Microphanurus (see	Suberin, in raspberry, effects of Resseliella
Allantinae on, in North America 1178	Aporophlebus striaticeps)	theobaldi on 1443
Amphipoea interoceanica on, damage	striatus, Aulacus	subfasciatus, Myllocerus
caused by 6447	striatus. Psammotettix	subfasciatus, Zabrotes
Anthonomus rubi on, in Poland 6448	Striga, arthropods associated with 271	subflexa. Heliothis
	strigata, Liriomyza	subfusca, Hypsauchenia
A. signatus on	strigator, Homotropus	subfuscus. Athous
in Ohio 366		subgothica. Feltia
in Quebec 364	strigatus, Ataenius	
arthropod pests of	strigatus, Eumerus	subhyalinus, Macrotermes
in Mexico 995	Striglina glareola, in India 2756	subinnotatus, Callosobruchus
in New South Wales 2161	striolata, Phyllotreta	sublata, Dictyna
in Quebec 359	strobi, Asynapta	subnuda, Ganaspis
in Scotland 4175	strobí, Pissodes	subobscura, Drosophila
in Zimbabwe 4720	strobi, Trisetacus	subpilosus, Ptinus
Chaetosiphon fragaefolii on, in East	strobiphagus, Trisetacus	subrubescens, Camaratoscena
Germany 2939	Strontium, in Delia antiqua, and in diet	Subsaltusaphis ornata, gut in 3733
Frankliniella occidentalis on, in California	2226	subsatura, Hypocala
		subsecivella, Biloba (see Stomopteryx
5826	Strophosomus, on forest trees, in Sweden	
Heteroptera on, in Sweden 5584	5769	subsecivella)
insect pests of, alternative food-plants of	Strophostyles, Cerotoma trifurcata on,	subsecivella, Stomopteryx (Biloba)
5503	development of 6190	subsericea, Formica
insecticides in, residues of 5582	Structural wood	subspinosus, Macrodactylus
Lygus lineolaris on	Anobium punctatum in, in West Germany	subtropica, Rhyacionia
in Ohio 366	3106	subtropicus, Bothynus
in Quebec 364	arthropod pests of, in Canada 2792	subvillosus, Scymnus

subviolaceus, Anisepyris subvirescens, Cofana (Tettigonia) subvirescens, Tettigonia (see Cofana subvirescens) subvirescens, Tomosvaryella succincta, Cyrtacanthacris (Patanga) succincta, Patanga (see Cyrtacanthacris succincta) Sucrose (see α-D-Glucopyranoside, β-Dfructofuranosyl) Bemisia tabaci in 4341 Cisaberoptus kenyasein, on mango 1480
Heliothis fletcheri in, on sesame 799
locust control in 5898
plant protection in 3238
Sugar-beet (Beta vulgaris var. saccharifera)
Agrotinae on, in Poland 1864
Aphididae on
forceating infestations of 3530 forecasting infestations of 3530 in England 1757
Aphidoidea on, in Egypt 2489 Aphis fabae on phis fabae on effects of beet mosaic virus on effects of herbicides on 3014 in Austria 1525 in Belgium 1524 in Poland 1871, 4040 in UK 5685 m UK 5685
A. gossypii on, in Spain 6532
arthropod pests of
in Belgium 464, 6533
in Europe 1523
in Finland 1903
bacteria-like organisms in, in Israel 467
best mild vellowing virus in bacterra-like organisms in, in Israel 4
beet mild yellowing virus in
in Austria 1525
in Switzerland 5687
in UK 5685
beet mosaic virus in, in Poland 4040
beet western yellows virus in, in
Washington 4590
beet yellows virus in beet yellows virus in in Austria 1525 in England 1757 in France 3530 in Poland 4040 in Spain 6532 in UK 5685 Ceramica picta on, damage caused by 1018 Chaetocnema concinna on, in Austria 1756 C. tibialis on, in Austria 1756 Diacrisia obliqua on, in Uttar Pradesh 5684 Euschistus conspersus on, in California 5364 5364
insect pests of, damage caused by 4042
Loxostege sticticalis on
forecasting infestations of 3187
in Yugoslavia 3156
Mamestra brassicae on, in Bulgaria 2620
Miridae on, in Egypt 2489
Myzus persicae on
assessing infestations of 2490
effects of herbicides on 3014
in Austria 1525 in Austria 1525 in Belgium 1524 in Poland 4040 in Spain 6532 in Switzerland 5687 in UK 5685 in Washington 4590 in West Germany 6534 insecticide susceptibility of 3796 msecticate susceptionity of 3796

Pegomya hyoscyami on
damage caused by 211
development of 3013
in Finland 4591
in Poland 1871
olfactory orientation of 465

Pemphigus fuscicornis on, development of 2022 pest control on aldicarb for 5682 book 2621 carbofuran for 5537 carboturan for 5337 ethiofencarb for 6530 in Europe 1523 in RSFSR 3184 insecticides for 2462, 5686, 6712 integrated 6736

Sugar-beet contd. pest control on contd. terbufos for 5681 thresholds for 4042, 4591 pests of, in Poland 4041 Rhopalosiphoninus staphyleae on, in UK 5685 Spodoptera littoralis on, damage caused by 2489 Systena blanda on, damage caused by 466 Tetranychus urticae on, effects of beet mosaic virus on 4749 virus control in, vector control for 50

Xestia c-nigrum on, in Romania 106

Sugar-beet fields

Carabidae in, effects of insecticides on 5089 3823 predatory insects in, effects of insecticides on 2462 Sugar-cane (Saccharum officinarum) Aleurolobus barodensis on, in Uttar Pradesh 2352 Anomala albopilosa on, in Japan 2860, 2861, 2862, 2863 arthropod pests of 2780 in Mauritius 6347 Castnia licoides on, in Central America 1661 C. licus on, damage caused by 289 Cavelerius saccharivorus on in Japan 5514 in Ryukyu Islands 292, 4500 Chilo agamemnon on, varietal preferences of 4349 C. auricilius on, in India 5559
C. infuscatellus on
in Karnataka 1371
in Tamil Nadu 5021, 6346
C. partellus on, development of 5020
C. sacchariphagus on, in Tamil Nadu 5020 6346 Cochliotis melolonthoides on, in Tanzania 1384 Cofana spectra on in Punjab 2353 subvirescens on 287 Diaprepes abbreviatus on, development of 4556 Diatraea spp. on, effects of fertilizers on 1383 D. saccharalis on in Brazil 861, 5516 in Colombia 5517 in Texas 288, 1914, 3358 resistance to 289 Elateridae on, in Queensland 3880 Eldana spp. on, in South Africa 1373 E. saccharina on damage caused by 1382 in Ivory Coast 693 in South Africa 1376, 1378 oviposition by 1374 Eoeurysa flavocapitata on, in West Bengal 3359 insect pests of in Assam 4142 in Bangladesh in Brazil 1915 in Mauritius 55 in Punjab 4501 in Queensland 863
Lepidiota frenchi on, in Queensland 3880 Mahanarva spp. on, in Brazil 289 M. posticata on damage caused by in Brazil 1375 Melanaphis sacchari on, resistance to 290 Melanaspis glomerata on damage caused by 4498 in Andhra Pradesh 6345 in Andhra Pradesh 6345
Metamasius spp. on, in Colombia 5517
Oligonychus indicus on, in Haryana 267
Opogona spp. on, damage caused by 15
Pentodon idiota on, in Iran 1380
Perkinsiella spp. on
feeding by, measuring of 1377
in Papua New Guinea 707
P. saccharicida on, varietal preferences of
3880

pest control on 863, 1915, 4501, 5496

Sugar-cane contd. pest control on contd. biological 1646, 1672, 6001 economics of 1672 in Brazil 1916 pests of in Kerala 1902 in Réunion 693 Pulvinaria iceryi on in Mauritius 1372
varietal preferences of 5513
Pyrilla perpusilla on, in Gujarat 3879,
5515 Rhabdoscelus obscurus on, varietal preferences of 2355
Rhynchophorus palmarum on, in Colombia 5517 Saccharicoccus sacchari on, varietal preferences of 1381
Scarabaeidae on, in Japan 2859
Sesamia calamistis on, in South Africa S. cretica on in Egypt 235 in Iran 1380 S. inferens on, in Japan 1385 S. nonagrioides on, in Iran 1380 Tetraneura kalimpongensis on, in West Bengal 1834 Tryporyza nivella on, in Punjab 6308 Sugar-cane bagasse, diet component for, Rhynchophorus ferrugineus 361 Sugar-cane Fiji disease virus Perkinsiella spp., transmission of 1377
P. saccharicida, transmission of 3880
Sugar-cane mosaic virus
aphid transmissibility of, loss of 2864
in, Uroleucon ambrosiae, transmission of 2864 Sugar-cane plantations
ants damaging irrigation tubing in, in
Hawaii 2355
beneficial arthropods in, in Brazil 1915
Chironomidae blocking irrigation systems
in, in Hawaii 2355 parasitic insects in, in Mauritius 6347

Pheidole dentata in, in Florida 4499 predatory arthropods in in Egypt 4356 in Mauritius 6347 bait component for, Conopia myopaeformis 1980 conjugation of pesticides with 3199 diet component for Chrysopa carnea Dacus cucurbitae 2282
Ostrinia nubilalis 813
in Abies grandis, effects of Orgyia
pseudotsugata on 2586
in Acer saccharum sap, not affected by
Phytobia setosa 4941
in Agratis insilan dist affects on mating in Agrotis ipsilon diet, effects on mating of 1208 in grapevine, effects of Eotetranychus pruni on 1964 in insect virus formulations 4066 in Lymantria dispar diet, effects on virus production of 4935 in Metopolophium dirhodum, and in oats in Mythimna separata diet, effects on mating of 1208 in Neotermes bosei diet, digestion of 6329 in Nilaparvata lugens honeydew, used by Cnaphalocrocis medinalis 4517 in Phaseolus, effects on Aphis craccivora of 4340 of 4340
in potato, effects of carbofuran on 5114
in rice, role in resistance to Orseolia
oryzae of 5562
in Samia cynthia larvae, metabolism
during moulting of 3254
in Sesamia nonagrioides hemolymph,
developmental changes in 4787
in Vigna unguiculata, effects on Aphis
craccivora of 4340
sugawarai, Lasioseius
sugitama, Gastrancistrus
sugitama, Platygaster
sugitamabae, Tetrastichus

Subject Index		112
Suireia milvipennis (see Coleophora	Sundapteryx biguttula biguttula	Surattha indentella contd.
milvipennis)	control of, insecticides for 4054	parasites of, in Kansas 1943
Sukunahikona prapawan	in India 4054	predators of, in Kansas 1943
sp. nov., description of 2935	on castor, in Karnataka 4054	suratus, Dorytomus
in New Hebrides 2935	Sunflower (Helianthus annuus)	Surfactants, in diazinon formulations, effect
preying on	Amrasca biguttula on, varietal preferences	on insecticidal activity of 6707
Aspidiotus destructor, in New Hebrides 2935	of 5712	surinamensis, Oryzaephilus (Silvanus)
Aulacaspis tubercularis, in New	arthropod pests of in Romania 2849	surinamensis, Silvanus (see Oryzaephilus surinamensis)
Hebrides 2935	in Zimbabwe 4720	Sus scrofa domestica (see Pig)
Pseudaulacaspis pentagona, in New	Brevipalpus phoenicis on, in Madhya	suspectana, Pammene
Hebrides 2935	Pradesh 4295	suspensa, Anastrepha
Unaspis citri, in New Hebrides 2935	Cylindrocopturus adspersus on, damage	Sussaba punctiventris
sulcatus, Cheiracus sulcatus, Dendrosoter	caused by 3543 Cyrtacanthacris guttulosa on, in New	in Poland 3995
sulcatus, Otiorhynchus	South Wales 822	parasitising, Syrphidae, in Poland 3995 Susumia exigua
sulcifera, Sibinia	Diacrisia obliqua on, in Delhi 2035,	control of
sulcifrons, Sitona	_ 2509	insecticides for 4179
Sulcobruchus, in India 4197	Eucosma womonana on	non-target effects of 4179
Suleima helianthana food-plants of 478	effects of sowing date on 2034 in Texas 2034	in Solomon Islands 4179 on rice, resistance to 4179
in USA 478	varietal preferences of 2034	suturalis, Lochmaea
on sunflower, damage caused by 478	Euproctis xanthorrhoea on	swainei, Neodiprion
seasonal abundance of 478	damage caused by 2509	Swammerdamia beirnei
Sulfanilamide (see Benzenesulfonamide, 4-	in Delhi 2509	sp. nov., description of 961
amino-) Sulfenyl-propoxur (see Carbamic acid, [[4-	Heliothis armigera on in Maharashtra 6557	biology of 961 in Canada 961
(1,1-dimethylethyl)-2-	in New South Wales 4608	on apple, damage caused by 961
methylphenyl]thio]methyl-, 2-(1-	H. punctigera on, in New South Wales	Swaziland
methylethoxy)phenyl ester)	4608	agricultural entomology in 2159, 2160
Sulfur	Homoeosoma electellum on	forest pests in 5169
against Hercinothrips bicinctus, on banana	damage caused by 1540	Heliothis spp. in, on cotton 1036
988	in Oregon 1034 in Saskatchewan 2206	stored products in, insect pests of 4662 Swede (Brassica napus var. napobrassica)
Tetranychus lombardini, on banana	insect pests of	Brevicoryne brassicae on, damage caused
988	in Kenya 1541	by 5093
Tyrophagus spp., in insect-rearing	in North Dakota 6260	Delia brassicae on, in England 1759
incubators 811	insecticides in, toxicity of 6700	Phyllotreta cruciferae on, in Ontario
in Delia antiqua, and in diet 2226 in Entomophthora obscura, toxicity of	leaf hoppers on, in Poland 3036 Liriomyza trifolii on, in Kenya 5415	P. undulata on, feeding by 4018
4136	Melanoplus differentialis on, preferring	Scaptomyza flaveola on, in Tasmania
in Noctua pronuba, use in chemoprinting	unhealthy tissue 4057	5416
of 2223	Napomyza lateralis on, in Bulgaria 5120	Sweden
in Pinus sylvestris, utilisation by	Nysius vinitor on, damage caused by 2100	Attagenus woodroffei in, in dwellings 2600
Neodiprion sertifer of 5756 with phosphate rock, against, pests of	Pentatomidae on, damage caused by	Betula spp. in, insect pests of 5150
stored products 2598	6558	Coleoptera in 5414
Sulfur dioxide, in polluted air, effects on	pest control on 2849	Curculionidae in, on forest trees 5768,
Araneus of 2831	biological 5952	5769
sulfurana, Periclista Sulfuric acid	thresholds for 6259 Phyllotreta undulata on, not feeding	Eriosoma spp. in 2170 Eucera longicornis in, on Ophrys 4437
copper(2+) salt (1:1)	4018	Formica spp. in 3725
with arsenic oxide (As ₂ O ₅), and	Rhizopus oryzae in, associated with insect	F. polyctena in, in pine forests 5747
dipotassium chromate (K ₂ Cr ₂ O ₇)	damage 1540	Formicidae in 2801
against	Smicronyx fulvus on	Heteroptera in, on strawberry 5584
Coptotermes acinaciformis, in Dyera costulata wood 4129	damage caused by 6259 in Illinois 2033	Hylobius abietis in 4619 on Pinus 5206
Nasutitermes exitiosus, in Dyera	in Missouri 2033	insecticide use in 5955
costulata wood 4129	in North Dakota 1539, 2033	Ips typographus in, on Picea 6589
iron(2+) salt (1:1), in Manduca sexta	Spodoptera litura on, lipid utilisation by	Megastigmus bipunctatus in, natural
diet, unable to replace ascorbic acid	52 Sait - Jimes	enemies of 2660 pesticide use in 5954
2191 monododecyl ester, sodium salt, surface-	Stibadium spumosum on, in Oregon 1033	Phyllobius pyri in 1764
sterilant for, Lymantria dispar eggs	Suleima helianthana on, damage caused	Pieris brassicae in, natural enemies of
5795	by 478	5841
Sulfurous acid, 2-[4-(1,1-	Zygogramma exclamationis on, in	Rhopalosiphum padi in
dimethylethyl)phenoxylcyclohexyl 2-	Manitoba 3035 Z. tortuosa on, feeding by 5011	on grain crops 5521 on <i>Prunus padus</i> 5521
propynyl ester (see Propargite) sulphurea, Bourletiella	Sunflower fields, Oribatei in, in USSR	Tomicus minor in, on Pinus 1565, 514
sulphurella, Elymana	1306	T. piniperda in, on Pinus 1565, 5149
Sulprofos (O-ethyl O-[4-(methylthio)phenyl]	Sunflower oil, bait component for,	Trialeurodes vaporariorum in
S-propyl phosphorodithioate)	Gryllotalpa spp. 1554	on cucumber 5645
against	Sunflower (stored seeds) Araecerus fasciculatus in, damage caused	on ornamental plants 5733 on tomato 3764, 5645
Pectinophora gossypiella, on cotton 4383	by 586	Sweet potato (Ipomoca batatas)
pests of cotton 4383	diet component for, Geocoris pallens	arthropod pests of, resistance to 4180
Spodoptera exigua, on cotton 3552	5130	Chaetocnema confinis on, in Georgia
S. frugiperda 5265	insect pests of	(USA) 3026
in Apanteles marginiventris, toxicity of	damage caused by 3681 interactions among 3681	Coleoptera on, resistance to 4179 Conoderus falli on, in Georgia (USA)
in Geocoris punctipes, toxicity of 3547	storage conditions for 2100	3026
in Hippodamia convergens, toxicity of	sunia, Prodenia (see Spodoptera sunia)	Cylas puncticollis on, resistance to 696
3547	sunia, Spodoptera (Prodenia)	insect pests of, effects of monoculture on
in Podisus maculiventris, toxicity of	superans, Dendrolimus	6371
3547	superciliaris, Amnemus Superoxide dismutase (see Dismutase,	sweet potato mosaic virus in, in Bihar 2497
with amitraz, against, <i>Heliothis</i> spp., on cotton 3552	superoxide)	Tetranychus piercei on, in Japan 705
Sultanas (see Raisins and sultanas)	suppressalis, Chilo	Sweet-potato fields, insects in, effects of
Sumicidin (see Fenvalerate)	Supracide (see Methidathion)	monoculture on 6371
Sumithion (see Fenitrothion)	Surattha indentella	Sweet potato mosaic virus
Summer squash (see Squash)	biology of 1943 in USA 1943	Brevicoryne brassicae, not transmitted
Sunberry (see Physalis minima)	on Buchloe dactyloides, in Kansas 1943	2497

```
Sweet potato mosaic virus contd.
        in contd.
              Myzus persicae, transmission of sweet potato, in Bihar 2497
                                                                                                        2497
  Sweet potato yellow spot virus
              Bemisia tabaci, transmission of 3025
Myzus persicae, transmission of 3025
Myzus persicae, transmission of 30.

Sweetbrier (see Rosa eglanteria)

Swertia chirata, insect growth regulator activity of extracts of leaves of 3703

swezeyi, Anagyrus

Swimming pools, Hemiptera in 3781

swinhoeii, Lemnia (see L. saucia)

swirskii, Metaphycus

Switzerland

apiculture in 4700
        apiculture in 4709
       apple in, arthropod pests of 1456
Araneae in, in crop fields 255
Athalia rosae in, on rape 5652
        Ceutorhynchus napi in, on rape 5652
Coleophora serratella in, on Alnus 46
Cydia funebrana in 1744
              on plum 1983
pomonella in 1744
        Eotetranychus carpini in, on grapevine
                2940
        Ephestia cautella in, in chocolate factories
                 4671
       4071
E. elutella in, in chocolate factories 4671
Eupoecilia ambiguella in 1744
on grapevine 3988, 3989, 5589
Euzophera cinerosella in, on Artemisia
1905
       1905
Truit crops in, pest control on 2433
Lema cyanella in 1904
Leucoma salicis in, on Populus 6629
Liriomyza nietzkei in, on onion 6546
Lobesia botrana in, on grapevine 5589
Lucanidae in 1832
Melolontha melolontha in 2117
Myrus persicae in on sugarabeet 5689
        Myzus persicae in, on sugar-beet
        Oligomerus ptilinoides in 6661
Oscinella frit in, on maize 5536, 5652
Ostrinia nubilalis in, on maize 5538,
                 5652
        Panonychus ulmi in, on grapevine 2940, 5589
        Phorodon humuli in, on hop 5017
       Phyllonorycter quinnatus in, natural enemies of 6013

Plodia interpunctella in, in chocolate factories 4671

Psylla pyri in, on pear 1982

Psylliodes chrysocephalus in, on rape 5651
        Pterocomma italicum in, on Salix 5762
Rhagoletis cerasi in, on cherry 5610
Scarabaeidae in 1832
        Tenthredinidae in
              natural enemies of 5773
on forest trees 4627, 5746
        Tetranychus urticae in, on grapevine
                 5589
        Tipula paludosa in, natural enemies of 5237
Zeiraphera diniana in 1744
on Larix 3585, 3586, 3587
sycomorus, Neophyllobius
Sycophila variegata
distribution of 5736
hosts of 5736
in Japan 5736
parasitising, Dryocosmus kuriphilus, in
Japan 5736
Sylepta derogata
control of, insecticides for 2538
embryonic development in, effects of
temperature on 6116
in India 2538, 2756
in Senegal 258
on cotton
 on cotton
effects of sowing date on 2538
varietal preferences of 2538
parasitised by, Paralitomastix varicornis,
in Senegal 258
sylvanidis, Holepyris
sylvatica, Cicindela
sylveni, Pteromalus
sylvestrela, Dioryctria
sylvestris, Cricotopus
Symbiosis, book 1301
```

```
Symmerista albifrons, taxonomy of,
        Symmerista leucitys misidentified as, in
        Canada 1068
 Symmerista canicosta
in USA 5198
     on Quercus, in Michigan 5198
     taxonomy of, Symmerista leucitys
misidentified as, in Canada 1068
Symmerista leucitys
biology of 1068
descriptions of 10
in Canada 1068
                                        1068
     in USA 1068
on Acer saccharum, in New York
parasites of, in New York 1068
      taxonomy of
           misidentified as S. albifrons, in Canada
                  1068
           misidentified as S. canicosta, in Canada
                  1068
 Sympherobius barberi, insecticides in, toxicity of 5631
 Symphyla
     in soil, extracting of 4872
on cucumber, in UK 6508
 Symphyta
book 6265
book 6265
hedgerow removal as affecting 1831
in North America, book 3309
on forest trees, in Italy 2080
Sympiesis, parasitising, Phyllonorycter
ringoniella, in Japan 1457
Sympiesis aburianus
in Ivory Coast 4544
parasitising, Coelaenomenodera elaeidis, in
Ivory Coast 4544
Sympiesis dolichogaster
in Japan 3056
parasitising, Caloptilia theivora, in Japan
      parasitising, Caloptilia theivora, in Japan
 Sympiesis mikado (see S. dolichogaster)
Sympiesis sericeicornis, in Poland 3602
Sympiesis stigmatipennis
in USA 2501
parasitising, Keiferia lycopersicella, in
California 2501
Sympiesis yuekseli
symplesis yuekseli
sp. nov., description of 385
in Canada 385
parasitising, Phyllonorycter spp., in
British Columbia 385
Symydobius oblongus
in UK 119
on Betula, in England 119
tended by, Formica lugubris, in England
119
             119
 Synanthedon, control of, behaviour-
modifying chemicals for 1739
Synanthedon bibionipennis, attractants for
        6212
 Synanthedon exitiosa
     flight activity in 395 in USA 395, 3485 on peach, assessing infestations of 395
      sex pheromone of 6237
     laboratory synthesis of
traps for 395, 3485
 Synanthedon myopaeformis (see Conopia
 myopaeformis)
Synanthedon pictipes
attractants for 6237
    colour preferences in 3485
control of, mating disruption for 6237
dispersal of 1461
in USA 1461, 3484, 3485, 6237
on peach
in Georgia (USA) 1461
in Indiana 6237
     sex pheromone of laboratory synthesis of 6058 other Synanthedon attracted to 3484
 responses to 6262
traps for 1461, 3484, 3485
Synanthedon rileyana
attractants for 6212
           Synanthedon pictipes sex pheromone as
synamicon pictipes sex pheromone as 3484 in USA 3484 traps for 3484 Synanthedon sequoise, attractants for 6212 Synanthedon tipuliformis biology of 1444
```

```
Synanthedon tipuliformis contd.
fungi in, in New Zealand 1444
in New Zealand 1444, 1963
     on black currant
        distribution pattern of 1963
in New Zealand 1444
    parasites of, in New Zealand 1444
predators of, in New Zealand 1444
Synanthedon vespiformis
in France 3461
    on Castanea, in France 3461
Syncephalastrum racemosum, in, Cofana
      spectra, in Kerala 2908
Synergists
    substances tested as:
citrus oils 3797
        methylenedioxyphenols 4151
Synergus
     in plant galls, in Netherlands 4186
     taxonomy of, characters for 4186
Synergus clandestinus
    in Poland 3082
     in Callirhytis galls, in Poland 3082
 syngramma, Acrocercops
Syngrapha circumflexa
     in Egypt 2500, 4357
     on tomato, in Egypt
                                           2500
Synharmonia conglobata
     in USSR 3376
     preying on, grain aphids, in Kazakhstan
          3376
Synopeas, parasitising, Dasineura tetensi, in USSR 3456
Synopeas zaitama
     sp. nov., description of 5737
    illustrations of 5737
in Japan 5737
     parasitising, Resseliella odai, in Kyushu
           5737
Synthase, carbamoylphosphate, in 
Drosophila melanogaster, 
characterization of 734
Synthetase, arginosuccinate, in Samia cynthia fat-body, not found 4472
Synthetase, fatty acid
in Ceratitis capitata larvae, regulation by dietary fatty acids of 6051 in Exeristes roborator, effects of dietary glucose on 3255

Syntomosphyrum (see Tetrastichus)

Syrbula admirabilis

chorusing behaviour in 2798 in USA 2798
 Syria
Dasineura oleae in, on olive 5084
Nemapogon levantinus in 6026
syriacus, Pullus (see Scymnus syriacus)
syriacus, Scymnus (Pullus)
Syringa
    insect pests of, in USSR
pest control on 1556

Syringa vulgaris (see Lilac)

syringae, Podosesia
syringopais temperatella
biology of 1389
control of, insecticides for 1389
in Turkey 1389
in Turkey 1389
on grain crops
damage caused by 1389
effects of sowing date on 13
pathogens of, in Turkey 1389
preyed on by, birds, in Turkey
Syrphidae
Batesian mimicry in 4918
biology of 2312
in Czechoslovakia 142
in apple orchards effects of pes
                                                             1389
     in apple orchards, effects of pesticides on 5072
    in cabbage fields, effects of Bacillus
thuringiensis on 5839
in crop fields, in Poland 1892
in mixed forests, in West Germany 14
in orchards, in Poland 3465
in potato fields, in Pennsylvania 4916
in safflower fields, in Victoria 6556
                                                                     1432
     parasitised by
         Hymenoptera, in Poland 3995
         Ichneumonidae, in Palaearctic region
               3346
    preyed on by, Diogmites missouriensis, in Arkansas 2336
```

oudjoor muon		1131
Syrphidae contd.	tabaniformis, Paranthrene	Taiwan contd.
preying on	Tabernaemontana coronaria (see T.	Sitophilus contd.
Aphididae, and biological control using,	divaricata)	S. zeamais in, in rice grain 4677
in Chile 4174	Tabernaemontana divaricata	Steneotarsonemus spinki in, on rice
grain aphids, in England 1388	Diacrisia obliqua on, feeding by 5015	3382, 3383
Myzus persicae, in Andhra Pradesh	Eutetranychus orientalis on, in Madhya	Tetranychus piercei in 705
6574	Pradesh 4295	Vigna radiata in, pest control on 445
Psylla palmeni, in Alaska 513	Tachinaephagus zealandicus	takachihoi, Eulecanium (see
P. phlebophyllae, in Alaska 513	in USA 3350	Parthenolecanium takachihoi)
P. pyri, in France 5607	preyed on by, Holcocephala fusca, in	takachihoi, Parthenolecanium (Éulecanium)
Syrphoctonus biguttatus	Virginia 3350	Takydromus tachydromoides, prey of,
in Poland 3995	Tachinidae	defence mechanisms of 2749
parasitising, Syrphidae, in Poland 3995	agricultural development as affecting	Talc
Syrphophilus bizonarius, parasitising,	4991	against, pests of stored products 2598
Sphaerophoria spp., in Palaearctic region	in Albania 4989	with glucose, effects on insect pests of
3346	in Crimea 3304	glazing of rice with 593
Syrphophilus tricinctorius, parasitising,	in Czechoslovakia 157, 5470	talpae, Hystrichopsylla
Syrphus spp., in Palaearctic region	in Poland 4991	Tamarack (see Larix laricina)
3346	in oak forests, not affected by Bacillus	Tamaricella parvula
Syrphus biology of 2312	thuringiensis 3098	in USSR 2346
illustrations of 2312	microtype eggs of 4739	on Tamarix, in Turkestan 2346
parasitised by, Ichneumonidae, in	parasitising	tamaricicola, Psyllaephagus
Palaearctic region 3346	Acronicta spp., in England 4100 Datana integerrima, in USA 6223	Tamarind (Tamarindus indica) insect pests of, in India 4493
Syrphus auricollis (see Meliscaeva auricollis)	Epiblema scudderiana, in Pennsylvania	pest control on 4493
Syrphus balteatus (see Episyrphus balteatus)	2825	Tamarind (stored fruit), pest control in,
Syrphus cinctellus (see Meliscaeva cinctella)	Heliothis spp., in New South Wales	fumigants for 5834
Syrphus corollae (see Metasyrphus corollae)	6569	Tamarind (stored pods), insect pests of, in
Syrphus latifasciatus (see Metasyrphus	Lepidoptera, in Bangladesh 6325	India 4493
latifasciatus)	Microlepidoptera, in West Germany	Tamarindus indica (see Tamarind)
Syrphus nitens (see Metasyrphus nitens)	1575, 1576	Tamarix
Syrphus nitidicollis (see Epistrophe	Pandemis heparana, in British	Cicadina on, in Turkestan 2346
nitidicollis)	Columbia 950	Sphecidae on, in Uzbekistan 3337
Syrphus ribesii	Sesamia spp., in Ghana 4497	Tamaron (see Methamidophos)
development in, effects of humidity and	Spodoptera litura, in Andhra Pradesh	Tanacetum vulgare
temperature on 3865	6574	as companion crop for crucifers, effects or
in Finland 3827	preyed on by, Diogmites missouriensis, in	insect pests of 6226
in Poland 2438	Arkansas 2336	Macrosiphoniella spp. on 3875
preying on, Aphididae, in Poland 2438	Tachyporus	tanajoa, Mononychellus
Syrphus vitripennis	in Central America 1190	Tanalith CP (see Sulfuric acid, copper(2+)
in Poland 2438	in North America 1190	salt (1:1), with arsenic oxide (As ₂ O ₅),
in USSR 147	in rye fields, in West Germany 6358	and dipotassium chromate (K ₂ Cr ₂ O ₇))
parasitised by, Ichneumonidae, in	taxonomy of 1190	Tangerine (see Mandarin and tangerine)
Palaearctic region 3346 preying on	Tachyporus hypnorum	tantillus, Orius Tanymecus lacaena
Aphididae, in Poland 2438	in Belgium 295 in wheat fields, in Belgium 295	illustrations of 2971
Calophya nigra, in Maritime Territory	Tachypterellus quadrigibbus	in USA 2971
147	in Canada 937	on Citrus, in Florida 2971
Systems analysis	on Amelanchier alnifolia, damage caused	Tanymecus palliatus, control of, insecticides
applied to plant protection 2114	by 937	for 1157
dynamic simulation and 1830	Tachytes, in South America 2764	Tanzania
Systena	taedae, Dioryctria	agricultural entomology in 2653
cowpea mosaic virus in, not transmitted	Taeniothrips	cashew in, arthropod pests of 5063
1011	control of, insecticides for 5070	Cochliotis melolonthoides in, on sugar-
on Vigna unguiculata, in Costa Rica	on apple	cane 1384
1011	assessing infestations of 2443	locust control in 5898
Systena blanda	in Himachal Pradesh 5070	plant protection in 3238
Howardula spp. in, in California 466	on apricot, in Himachal Pradesh 5070	Spodoptera exempta in 1172, 4847, 5909
in USA 466	on peach, in Himachal Pradesh 5070	5918
on sugar-beet, damage caused by 466	taxonomy of 4199	taoi, Pharoscymnus
parasitised by, Microctonus epitricis, in	Taeniothrips cardamomi (see Sciothrips	taonicus, Tenuipalpus
California 466	Cardamoun) Tacaiothrine maridianelie	Taphrocerus schaefferi biology of 4488
Systena frontalis in USA 347	Taeniothrips meridionalis	in USA 4488
in grassland	in Cyprus 5078 on Citrus, wind damage attributed to	on Cyperus esculentus, in Virginia 4488
effects of fertilizers on 347	5078	parasites of, in Virginia 4488
effects of insecticides on 347	Taeniothrips orionis, in China 4867	Taphrorychus bicolor
Systole albipennis	Taeniothrips sjostedti (see Megalurothrips	biology of 4644
biology of 2504	sjostedti)	in West Germany 4644
control of, insecticides for 2504	Taeniothrips vulgatissimus, in China 4867	on Fagus sylvatica, damage caused by
descriptions of 2504	Tagetes patula, not protecting cabbage	4644
distribution of 2504	against lepidopterous pests 2471	tapiacola, Tucumania
in Bulgaria 2504	Tahiti (indexed under Society Islands)	Tapinoma erraticum
on fennel, damage caused by 2504	Taiwan	feeding behaviour in 1338
Systole foeniculi (see S. albipennis)	Alticinae in 4195	migratory behaviour in, model 6292
Systrophoeca siccifolia (see Coleophora	Ascidae in 2662	Tapinoma melanocephalum
siccifolia)	Coccinellidae in 1884	in Canada 4428
Syzeuctus elegans	Dacus dorsalis in 934	in India 3975
in USA 5161	Empoasca formosana in, on tea 2045	in dwellings, in Manitoba 4428
parasitising, Tetralopha robustella, in	entomogenous fungi in 1129	preying on, <i>Oligonychus indicus</i> , in Karnataka 3975
Florida 5161	Hysteroneura setariae in 3316	Tapinoma sessile
syzygii, Eotetranychus	Laodelphax striatella in, on rice 3920	colony movement in 552
Syzygium aromaticum (see Clove)	mushroom in, insect pests of 2991 Myzus persicae in 1998	in USA 552
Syzygium cumini Fotetranychus syzygii on in Madhya	Nephotettix spp. in, on rice 908	taprobanensis, Pteronemobius
Eotetranychus syzygii on, in Madhya Pradesh 4295	Nilaparvata lugens in 5568	tarandus, Oxyrhachis
Oligonychus mangiferus on, in Madhya	on rice 1935, 2381, 2906, 3906	Taraxacum officinale
Pradesh 4295	Panonychus ulmi in 949	Agrotis ipsilon on 68
Trabala vishnou on, feeding by 1819	Phytoseiidae in, in orchards 1995	Bathyplectes curculionis on, nectar-feeding
Syzygium jambolanum (see Eugenia	Pseudaonidia duplex in, natural enemies	by 6243
jambolana)	of 2046	Melolontha spp. on, in East Germany
tabaci, Bemisia	rice in, insect pests of 6376	5452
shaci. Thrins	Sitophilus oryzae in, in rice grain 4677	tarsalis, Culex

tarsatorius, Homotropus Taxodium distichum, Dioryctria ebeli on, in Techniques contd. Tarsol (see Bacillus thuringiensis) USA 3090 for extracting arthropods from soil 4872, Tarsonemida, bibliography 3244 4873 Taxonomy Tarsonemidae electrophoresis in 4809 for extracting mites from foodstuffs for identifying arthropods 1173 for identifying insect juvenile hormones in industrial reclamation sites, in England use of microdisc electrophoresis in 1845 3424 on Poaceae 5019
Tarsonemus, in New York 2762 Otiorhynchus sulcatus on, in Netherlands for identifying insect sex attractants 1719 215 Tarsonemus acerbilis sp. nov., description of 2762 in USA 2762 for locating of double bonds in insect alkenes 5422 Rhynchaenus fagi on, in England 1574 taxus, Aonidiella alkenes Taxus media, Otiorhynchus sulcatus on, in New York 5185 for making casts of Lepidoptera eggs in Eriophyid galls, in New York 2762 Tarsonemus ascitus in USA 2762 4880 Taylorilygus apicalis (see T. pallidulus)
Taylorilygus pallidulus
in USA 4558 for measuring insect body temperature in USA 2762
in stored grain, in New York 2762

Tarsonemus blakemorei
sp. nov., description of 2762
in USA 2762
in birds' nests, in New York 2762

Tarsonemus confusus
in USA 2762
in stored grain, in New York 2762

Tarsonemus edwardsi
sp. nov., description of 2762
in USA 2762
in Eriophyid galls, in New York 2762

Tarsonemus fragariae (see T. pallidus)

Tarsonemus granarius
in USA 2762
in stored grain, in New York 2762

Tarsonemus in USA 2762 for measuring insect wing-beat frequency on avocado, in Florida 4558
Tazimcarb (3,5,5-trimethyl-2,4thiazolidinedione 2-[O-1846 for measuring insect wings 805 for measuring spray deposits 168 for monitoring abundance of adult [(methylamino)carbonyl]oxime]) for mounting Aleyrodidae 1858 for preparing insects for scanning electron microscopy 4879 for preserving insect genitalia in vials 4320 Rhopalocera 1856 against Anthonomus signatus, on strawberry Lygus lineolaris, on strawberry 364
TCP (synergist) (see Phosphoric acid,
tris(methylphenyl) ester) for sampling arboreal arthropods 1852 for sampling arthropods in turf 5047 for screening potential insecticides 3218 for stereoselective residue analysis 5257 TDE (see DDD) Tea (Camellia sinensis)

Adoxophyes spp. on, in Japan

Andaspis numerata on 6583 for stereoselective residue analysis 5257 for studying aggregation in insects 1312 for studying food exchange in ants 1337 for studying Scolytid pheromones 4628 for studying serological relationships between granulosis viruses 6671 for surveying insects 634 for testing efficacy of insecticides 2769 for testing side-effects of insecticides on beneficial insects 2332 arthropod pests of in India 4084 in Kenya 4181 Tarsonemus imitatus in USA 2762 in stored grain, in New York 2762 Empoasca formosana on, in Taiwan m stored grain, in New York 2762

Tarsonemus pallidus

biology of 6450
control of, acaricides for 6450
descriptions of 6450
Hirsutella nodulosa in, in England 5053
in Colombia 6450
in UK 5053 2045 Fiorinia theae on, in Assam 1057
Glyptotermes dilatatus on effects of shade on 4611
varietal preferences of 4611
insect pests of, in Japan 3056
pest control on 4084
integrated 1056
teteranactin for 6714 gas chromatography of phenols as acetates 2273 on strawberry damage caused by in England 5053 microdisc electrophoresis in taxonomy tetranactin for 6714 Scirtothrips dorsalis on in Honshu 5731 in India 5468 1845 6450 non-biological detoxification of pesticides Tarsonemus pennisetus sp. nov., description of 5019 in USSR 5019 on Stipa, in USSR 5019 3204 Tecoma stans, Trabala vishnou on, feeding by 1819 Tectona grandis Tetanocentria theae on, in USSR 5286 tetranactin in, degradation of 6714 Tarsonemus socius Xenocatantops humilis on, damage caused Lixus camerunus on 2986 sp. nov., description of 2762 in USA 2762 in birds' nests, in New York by 3564 Pyrausta machaeralis on, in Kwangtung Tea, medicinal, Sphaericus gibboides in, in West Germany 4675 Province 1579 tectonae, Perissopneumon tectus, Ptinus in stored grain, in New York Tea, Mexican (see Chenopodium tedella, Epinotia tedellae, Apanteles Tedion (see Tetradifon) Tarsonemus vulgaris ambrosioides) sp. nov., description of 2762 in USA 2762 in birds' nests, in New York in stored grain, in New York Tea plantations, parasitic insects in, in Japan 3056 Tegolophus calotropi sp. nov., description of 4727 in India 4727 Teak (see Tectona grandis) Techniques bioassay of botanical insecticides 3716 for bioassays of phagostimulants 1720 Tarsonemus waitei in USA 2762 in stored grain, in New York 2762 on Calotropis procera, in West Bengal for ollecting, preserving and slidemounting of arthropods 2779 for demonstrating arthropod cuticular topography 4869 for detecting and isolating chromosome aberrations in Lepidoptera 2772 for detecting and measuring acaricide resistance 3711 4727 Tasmania Tegolophus indica sp. nov., description of 4727 in India 4727 Abantiades latipennis in, on Eucalyptus 1091 on Artocarpus heterophyllus, in West Bengal 4727 Tegonotus spirorbis sp. nov., description of 2656 in New Caledonia 2656 Acyrthosiphon kondoi in, on lucerne 1956 arthropod pests in 5416 Curculionidae in 1441 Epiphyas postvittana in 1458 in stored apples 1120 Panonychus ulmi in, on apple 963 Paropsis spp. in, on Eucalyptus 2591 Pyrgoides orphana in, on Acacia 577 for detecting and measuring insecticide resistance 3709, 3710, 3712, 3713, 3714, 3715 on Acacia spirorbis, in New Caledonia 2656 telarius, Tetranychus (see T. urticae)
Telea polyphemus
muscles in, degeneration of 6052
sex pheromone of, receptors for 2705
Teleasinae, in Holarctic region 6032 for detecting insects in stored products 3643 5774 for detecting nuclear polyhedrosis virus in insects 6631 Tetranychus urticae in, on apple 963 Tettigoniidae in 1841 tasmaniae, Austromicromus (see Micromus detecting parasitic mites in honey bees tasmaniae, Austromicromus (see Micromicromus)
tasmaniae, Micromus (Austromicromus)
tasmanicus, Nabis
Tatochila autodice
descriptions of 4955
food-plants of 4955
in Argentina 4955
Tatochila blanchardii
descriptions of 4955
food-plants of 4955
in Chile 4955
Tatochila sterodice Teleasinae, in Holarctic region 6032
Teleiodes proximella
in West Germany 1576
on Betula, in West Germany 1576
parasites of, in West Germany 1576
population dynamics of 1576
telengai, Apanteles
telenominae, in Holarctic region 6032
Telenominae, in Holarctic region 6032 1878 for detecting pollutants in ciliates 6708 for determination of polar metabolites of insecticides 1138 for determining duration of activity of pesticides on *Trichogramma* 5982 for determining half-life of sex-pheromone formulations 1136 for determining insecticide spray deposits on plant surfaces 1692 for dissecting larval coleopterous head capsules 4313 Telenomus in China 4993, 5473 in rice-fields, effects of insecticides on Tatochila sterodice
descriptions of 4955
food-plants of 4955
tau, Dacus 6411 for estimating defoliation of hardwoods by insects 3086 larval head-capsules in 3368 parasitising for evaluating salt concentrations in insect glands 3281 Diatraea saccharalis, in Colombia taurus, Onthophagus Taxodiaceae, Carulaspis juniperi on, in New Zealand 2083 for extracting arthropods from bark Dinorhynchus dybowskyi, in Hokkaido

Telenomus contd.	Telenomus phymatae contd.	Tomolyaka intermeter populiting
parasitising contd.		Temelucha interruptor, parasitising,
	in Colombia 1891	Rhyacionia buoliana, in British Isles
Eldana saccharina, in Ghana 4497	in USA 1891	4211
Eurygaster integriceps, and biological	parasitising, Phymatidae 1891	Temelucha minuta
control using, in USSR 2120	Telenomus podisi	descriptions of 4461
Lymantria dispar, in Morocco 3068	in USA 2415, 6200	
		distribution of 4461
Mahasena corbetti, in Solomon Islands	in lucerne fields, in Kentucky 6200	parasitising, Phthorimaea operculella
3698	in soyabean fields, in Kentucky 6200	4461
Sesamia cretica, in Egypt 2354	parasitising	Temelucha philippinensis
Telenomus alsophilae, parasitising, Oxydia	Acrosternum hilare, in Kentucky 2415	in India 906
trychiata 6144	Euschistus servus 6200	parasitising, Scirpophaga incertulas, in
Telenomus californicus	in Kentucky 2415	West Bengal 906
in USA 1070		Temelucha stangli
parasitising, Orgyia pseudotsugata, in New	E. variolarius 6200	
Mexico 1070	in Kentucky 2415	in India 906
Telenomus chilocolus	Podisus maculiventris 6200	in Philippines 904
	in Kentucky 2415	parasitising
sp. nov., description of 4993	Telenomus proditor	Cnaphalocrocis medinalis, in Philippin
in China 4993		904
parasitising, Chilo suppressalis, in China	Nomuraea rileyi in, not pathogenic 1031	Scirpophaga incertulas, in West Bengal
4993	parasitising, Achaea janata 1031	906
Telenomus chloropus	Telenomus rondotiae	Temephos (O,O'-(thiodi-4,1-phenylene)
in USSR 5112	sp. nov., description of 5473	bis(O,O-dimethyl phosphorothioate))
parasitising	in China 5473	against
Eurygaster integriceps, in Caucasus	parasitising, Rondotia menciana, in China	
5112	5473	Sitophilus granarius 3797
		Tribolium confusum 3797
Podisus maculiventris 5112	Telenomus rowani	Xyleborus dispar, on hazel 6455
Telenomus clisiocampae	in Australia 6421	in Leptomastix dactylopii, toxicity of
in USA 2568	in Bangladesh 6425	2332
parasitising, Malacosoma disstria, in	in China 4993	synergists for, citrus oils as 3797
Minnesota 2568	in India 5549, 6395	Temik (see Aldicarb)
Telenomus closterae	parasitising	Temnaspidiotus destructor (see Aspidiotus
sp. nov., description of 5473	Scirpophaga incertulas	destructor)
in China 5473		Temnochila virescens
	in Bangladesh 6425	
parasitising, Clostera anachoreta, in China	in Karnataka 5549	in Mexico 1649
5473	in West Bengal 6395	preying on, Dendroctonus spp., in Mexic
Telenomus dalmanni	S. innotata, in Western Australia 6421	1649
in Chile 4442	Telenomus seychellensis, parasitising,	temperatella, Syringopais
in Poland 2445	Antestiopsis spp. 3055	Tenebrio
parasitising	Telenomus terebrans	cuticle in, hydrocarbons in 4790
Orgyia antiqua	dimethoate in, toxicity of 1159	water relations of 1786
in Chile 4442	lindane in, toxicity of 1159	Tenebrio molitor
in Poland 2445		
	ryania in, toxicity of 1159	bursicon in, induction of cyclic AMP by
Telenomus dignoides	Telenomus theophilae	746
Chilo partellus not parasitised by 6308	sp. nov., description of 5473	control of, growth regulators for 1166,
Corcyra cephalonica not parasitised by	in China 5473	1715, 2644, 3228
6308	parasitising, Bombyx mandarina, in China	enzymes in 2686
in India 6308, 6395	5473	epidermis in, effects of ecdysterone on
parasitising	Telenomus viggianii	ionic permeability of cell junctions in
Scirpophaga incertulas, in West Bengal	sp. nov., description of 2430	4242
6395	in Italy 2430	glucose in, oxidation of 4233
	in homel commisses in Similar 2420	
Tryporyza nivella, in Punjab 6308	in hazel coppices, in Sicily 2430	growth regulators in, effects of 4166
Telenomus dignus	parasitising	hemolymph in, pressure regulation in
in China 4993	Rhynocoris costai, in Sicily 2430	2685
in India 6395	R. erythropus 2430	humidity responses in 6114
in Indonesia 3415	Teleogryllus, cricket paralysis virus in,	in Egypt 2607
in rice-fields, in Indonesia 3415	characterization of 5844	in Yugoslavia 5964
parasitising, Scirpophaga incertulas, in	Teleogryllus commodus	in dried medicinal plants, in Egypt 260
West Bengal 6395	control of	in spices, in Egypt 2607
Telenomus embolicus, taxonomy of,	economics of 3979	juvenile hormones in, identifying of 56
characters distinguising T. viggianii and	genetic 4798	microwave irradiation as affecting 5315
2430	insecticides for 3979	moulting hormones in, abdominal
Telenomus euproctidis, in China 5473	diapause in, effects of temperature on	production of 2221
Telenomus gifuensis, in China 4993	5366	neuromuscular system in 6045
Telenomus guangdongensis	embryonic development in, effects of	nucleic acids in 723
sp. nov., description of 4993	temperature on 5366	palmitate in, oxidation of 4233
in China 4993	in Australia 4798	pupae of, effects of microwave irradiation
parasitising, Mythimna separata, in China	in New Zealand 3979, 4531	on 5800
4993	in pastures, damage caused by 3979	pupal development in, effects of electric
Telenomus monticola	traps for 4531	fields on 1107
descriptions of 5473	Teleogryllus emma (see T. mitratus)	rectal glands in, evaluating salt
in China 5473	Teleogryllus mitratus, carbohydrates in,	concentrations in 3281
	during ovarian and embryonic	seasonal abundance of 2607
parasitising, Orgyia antiqua, in China		spin-labelled juvenoids in, morphogenetic
5473	development 2718	effects of 5989
Telenomus mormideae	Teleonemia scrupulosa	
in Argentina 4442	biology of 852	tenebrioides, Zabrus
in Brazil 2016	in India 852, 2853	Tenebrionidae
parasitising	on Lantana camara	body temperature in, measuring of 2727
Piezodorus guildinii	damage caused by 852	control of, insecticides for 1052
in Argentina 4442	in Uttar Pradesh 2853	in Chandigarh 5807
in Brazil 2016	seasonal abundance of 2853	in Kuwait 1837
Telenomus ostriniae	Teleopterus, parasitising, Agromyza oryzae,	in Nansei Islands 4293
sp. nov., description of 4993	in Japan 346	in oak forests, not affected by Bacillus
	telestis, Acrocercops	thuringiensis 3098
in China 4993		Laboulbeniales in, in Taiwan 1129
parasitising, Ostrinia nubilalis, in China	Telodrin (see Isobenzan)	
4993	Temelucha	on tobacco, in Zambia 1052
Telenomus parnarae	in Australia 4461	tenebrionis, Capnodis
sp. nov., description of 4993	parasitising, Scirpophaga innotata, in	Tenebroides fuscus
in China 4993	Western Australia 6421	in Morocco 3068
parasitising, Parnara guttata, in China	Temelucha arenosa, parasitising, Rhyacionia	preying on, Lymantria dispar, in Morocc
4993	buoliana, in British Isles 4211	3068
Celenomus phymatae	Temelucha biguttula	Tenebroides maroccanus (see T. fuscus)
sp. nov., description of 1891	in Indonesia 3415	Tenebroides mauritanicus
in Canada 1891	in rice-fields, in Indonesia 3415	biology of 6643
III Canada 1071	*** **** ******** *** ******* ****	

```
Tenebroides mauritanicus contd.
                                                                                                                                                                                                                                           Tetrachlorvinphos contd.
                                                                                                                      Terbufos contd.
       control of
                                                                                                                            against contd.
                                                                                                                                                                                                                                                 against contd.
            fumigants for 6646
inert dusts for 2598
                                                                                                                                 pests of sugar-beet 5681
Scirpophaga incertulas, on rice 2379
                                                                                                                                                                                                                                                      Heliothis armigera
                                                                                                                                                                                                                                                           on maize 314
       in Nigeria 6645, 6646
in cacao beans, in Nigeria 6645, 6646
                                                                                                                                  Sphenophorus callosus, on maize 2897
                                                                                                                                                                                                                                                            on tomato 6550
in cacao beans, in Nigeria 6645, 6646
in oil-palm kernels, in Nigeria 6645
in rice grain, development of 6643
in wheat flour, development of 6643
in wheat grain, development of 6643
tenebrosan, Mictis
tenebrosana, Cydia
tenellus, Circulifer (see Neoaliturus tenellus)
tenellus, Gelis
tenellus, Neoaliturus (Circulifer)
Tennessee
Anthonomus grandis in bestaria in 2646
                                                                                                                                                                                                                                                       Hylobius spp., on forest trees
                                                                                                                            in Acalymma vittatum, detoxification of
                                                                                                                                                                                                                                                       Lasioderma serricorne 6651
                                                                                                                            in Diabrotica, detoxification of 4158
in maize, toxicity of 5681
in Pterostichus chalcites, toxicity of 1394
                                                                                                                                                                                                                                                       Lobesia botrana, on grapevine 4399,
                                                                                                                                                                                                                                                              5589
                                                                                                                                                                                                                                                     Lycia hirtaria, on apple 2957
Ostrinia nubilalis, on maize 314
pests of maize grain 3661
Sitophilus granarius, in wheat grain
595
                                                                                                                            in soil
                                                                                                                     adsorption of 1161
residues of 6251
in sugar-beet, toxicity of 5681
properties of 5681
properties of 5681
terebrans, Dendroctonus
terebrans, Telenomus
Terellia fuscicornis
                                                                                                                                                                                                                                                      S. zeamais, in maize grain 4121, 5813
Sitotroga cerealella, in maize grain
4121, 5813
 Anthonomus grandis in, bacteria in 3546
Ceutorhynchus assimilis in
on broccoli 999
on cabbage 999
Tenodera aridifolia
                                                                                                                                                                                                                                                      Spodoptera littoralis 223, 5723
on cotton 4386, 4390, 5718
                                                                                                                           in Turkey 1311
on globe artichoke, in Turkey 1311
                                                                                                                                                                                                                                                       Tribolium confusum, in wheat grain
                                                                                                                       tergemina, Heliothis
                                                                                                                                                                                                                                                              595
       in Japan 6485
                                                                                                                       Terminalia alata (wood), Microcerotermes
                                                                                                                                                                                                                                                 formulations of
       preying on, Papilio xuthus, in Japan 6485
                                                                                                                      beesoni in, feeding by 2572

Terminalia arjuna, pest control on 2846

Terminalia catappa, Anastrus sempiternus on, in Brazil 3074

Terminalia ivorensis, Tridesmodes ramiculata on, damage caused by 1578

Terminalia tomentosa pest control on 284
                                                                                                                                                                                                                                                      sunlight as affecting 4391
temperature as affecting 4391
  Tenthredinidae
                                                                                                                                                                                                                                                       UV-irradiation as affecting
                                                                                                                                                                                                                                                in cotton, persistence of 5723
in lentils, effects on composition of 4401
in maize, residues of 314
       control of, non-target effects of 2077
hedgerow removal as affecting 1831
      in Austria 4627
in Lithuania 5387
in Switzerland 4627
in West Germany 4627
morphological adaptations in 4627
on forest trees, in Europe 5746
                                                                                                                     Terminalia tomentosa, pest control on 2846
terminalis, Euproctis
terminifera, Chortoicetes
Termite (see Isoptera)
Termitidae, in Nigeria 5486
termitobium, Tetramorium
Termitogeton planus, legs of, glands in 716
Termenes
                                                                                                                                                                                                                                                in Phaseolus vulgaris seeds, effects on composition of 4401
                                                                                                                                                                                                                                                in Trichogramma embryophagum, toxicity of 1706 in Vicia faba seeds, effects on composition of 4401 in wheat grain, effects on composition of
       parasites of
 parasites of
in Austria 5773
in Switzerland 5773
parasitised by, Cleptes spp., in North
America 6317
taxonomy of 4627
tenthredinis, Mesoleius
Tenthredinoidea
                                                                                                                                                                                                                                                        4401
                                                                                                                           in Abies grandis, role in susceptibility to
Scolytus ventralis of 2586
                                                                                                                                                                                                                                                 residual effectiveness of 6651
                                                                                                                                                                                                                                               residual effectiveness of 6651 with Bacillus thuringiensis against, Lymantria dispar 5847 antagonistic 668 in Trichogramma embryophagum, toxicity of 1706 with cyhexatin, against, Spodoptera littoralis, on cotton 4386, 4390 with fentin acetate, and maneb, against, Spodoptera littoralis on cotton 4387.
                                                                                                                            in Niesthrea louisianica exocrine
                                                                                                                      secretions 4236
Terpenoids, antifeedant activity of 662
terrestris, Bombus
Territorial pheromones, Atta cephalotes
       in deciduous forests, plant associations of
               1097
       on Betula, in USSR
 on street trees, in Ukraine 5183
tenuicornis, Elenchus
tenuicornis, Frankliniella
tenuicornis, Hydara
Tenuipalpidae, in Madhya Pradesh 4295
                                                                                                                       Teruliini, taxonomy of 6025
                                                                                                                                                                                                                                                        Spodoptera littoralis, on cotton 4386, 4390
                                                                                                                       Tessaratoma javanica
flight muscles in
                                                                                                                                 glycogen in 728 proteins in 728
                                                                                                                                                                                                                                                 with fentin hydroxide, against, Spodoptera littoralis, on cotton 4386, 4390
 Tenuipalpus muguanicus
sp. nov., description of 6442
in China 6442
                                                                                                                            scent glands in
                                                                                                                                                                                                                                                 with methamidophos, against, Spodoptera
                                                                                                                                 glycogen in 728 proteins in 728
                                                                                                                                                                                                                                                        littoralis 5723
                                                                                                                                                                                                                                          Tetracnemus peliococci
sp. nov., description of 4981
in USSR 4981
parasitising, Peliococcus mesasiaticus, in
Turkmenia 4981
tetracolum, Bembidion
Tetracycline
in Asoxphaera anis not inhibiting growi
                                                                                                                     proteins in 728

Tessaratoma papillosa
amino acids in, and in rice 2371
enzymes in 2371
testacea, Malacosoma neustria
testaceipes, Holcothorax
testaceipes, Polymerus
testaceus, Macremphytus
testaceus, Physcus
testaceus, Physcus
testudinea, Hoplocampa
testulalis, Maruca 455
Tetanocentria, taxonomy of 5286
Tetanocentria theae
in USSR 5286
on tea, in USSR 5286
 on Carica papaya, in China 6442
Tenuipalpus punicae
in India 4295
       on Hibiscus rosa-sinensis, in Madhya
Pradesh 4295
       on pomegranate, in Madhya Pradesh
4295
                                                                                                                                                                                                                                                in Ascosphaera apis, not inhibiting growth
 Tenuipalpus taonicus
sp. nov., description of 6442
in China 6442
                                                                                                                                                                                                                                           in Hypera postica, overcoming cytoplasmic incompatibility 6240 3,5-Tetradecadien-1-ol, acetate, (3Z,5E)-, attractant for, Prionoxystus robiniae
      on apple, in China 6442
on Melia azedarach, in China 6442
on peach, in China 6442
on walnut, in China 6442
                                                                                                                                                                                                                                                    1569, 6202
                                                                                                                                                                                                                                           9,11-Tetradecadien-1-ol
acetate, (9Z,11E)-
attractant for, Spodoptera littoralis
 tenuipes, Apocephalus
tenuis, Nesidiocoris
tenuis, Sitona
Tephridae
                                                                                                                            on tea, in USSR
                                                                                                                            taxonomy of, transferred from
                                                                                                                                    Parametriotes 5286
                                                                                                                                                                                                                                                              1742
                                                                                                                      Tetanops myopaeformis, food-plants of 2491
                                                                                                                                                                                                                                                      laboratory synthesis of 1742 mating disrupter for, Spodoptera
in Nepal 4299
in Turkey 1311
insecticide resistance in, detecting and measuring of 3712
traps for, effects of height on 3701
TEPP (tetraethyl diphosphate)
in Acheta domesticus, effects on melanisation of 4705
in Parijaneta amerijana effects on
                                                                                                                     2491
Tetartopeus
in Nearctic region 6022
taxonomy of 6022
taxonomy of 6022
Tetra Growth Food, diet component for,
Occanthus nigricornis 938
Tetrachlorvinghos ((Z)-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl
                                                                                                                                                                                                                                                      littoralis 4698
with (9Z,12E)-9,12-tetradecadienyl
acetate, attractant for, Spodoptera
litura 3237
                                                                                                                                                                                                                                                              litura
                                                                                                                                                                                                                                          9,12-Tetradecadien-1-ol
(9Z,12E)-
                                                                                                                                                                                                                                                     in Homoeosoma electellum 2206
with (Z)-9-tetradecen-1-ol, attractant
for, Homoeosoma electellum 2206
with (9Z, 12E)-9, 12-tetradecadienyl
acetate, Plodia interpunctella
 in Periplaneta americana, effects on melanisation of 4705

Terbufos (5-[[(1,1-dimethylethyl)thio]methyl] O,O-diethyl phosphorodithioate) against
                                                                                                                              phosphate)
                                                                                                                            against
                                                                                                                                ainst
Anthonomus rubi, on strawberry 6448
Bemisia tabaci, on tomato 471
Callosobruchus chinensis, in Cicer
arietinum seeds 5228
Cydia molesta, on peach 394
C. pomonella, on apple 381
Dacus cucurbitae 1500
Eublemma amabilis 1350
Euplecilia ambiguella, on grapevine
                                                                                                                                                                                                                                                              electroantennogram responses to
            Agriotes spp., on potato 3811

Delia platura, on Phaseolus vulgaris
6230
                                                                                                                                                                                                                                                              6732
                                                                                                                                                                                                                                                acetate, (9Z,12E)-
attractant for
            Diabrotica spp. 6253
D. longicornis, on maize 3:
D. virgifera, on maize 312
                                                                                                                                                                                                                                                           Ephestia cautella
E. elutella 4671
                                                                                                                                                                                                                                                                                                       4671
                                                                                                                                                                                                                                                            Panolis flammea
            Nilaparvata lugens, on rice 30
Orseolia oryzae, on rice 2379
pests of forage crops 5681
pests of maize 5681
                                                                                3958, 5555
                                                                                                                                 Eupoecilia ambiguella, on grapevine
                                                                                                                                                                                                                                                            Plodia interpunctella
                                                                                                                                         5589
                                                                                                                                                                                                                                                      mating disrupter for
                                                                                                                                 Euproctis chrysorrhoea, on Rubus 668 forest pests 3175
                                                                                                                                                                                                                                                           Spodoptera litura
S. triturata 1749
                                                                                                                                                                                                                                                                                                        3237
```

Buoject Maex		1133
9,12-Tetradecadien-1-ol contd.	9-Tetradecenal contd.	11-Tetradecen-1-ol contd.
acetate, (9Z,12E)- contd.	(Z)- contd.	acetate, (Z)- contd.
radioprotectives for 3647 Spodoptera littoralis not responding to	with (E)-12-tetradecenal, attractant for, Orthosia hibisci 4904	with dodecyl acetate
4698	11-Tetradecen-1-ol	attractant for Aphelia paleana 3235
with (Z)-11-methyl-9,12-tridecadienyl	(E)-	Archips podanus 3235
acetate, (Z)-9-tetradecenyl acetate,	in Choristoneura fumiferana sex-	A. xylosteanus 3235
and (Z)-11-tetradecenyl acetate,	pheromone gland 2204	Argyrotaenia pulchellana 3235
attractant for, Adoxophyes spp.	with (Z) -11-tetradecen-1-ol, (E) -11-	Discestra trifolii 3235
6584	tetradecenyl acetate, and (Z)-11-	Eupoecilia angustana 3235
with (9Z,12E)-9,12-tetradecadien-1-ol,	tetradecenyl acetate, mating	Mamestra brassicae 3235
Plodia interpunctella electroantennogram responses to	disrupter for, Choristoneura rosaceana 4923	Tortrix viridana 3235 Zygaena ephialtes 3235
6732	(Z)-	with dodecyl acetate, and (E)-11-
with (9Z,11E)-9,11-tetradecadienyl	in Tortricid sex pheromones 1731	tetradecenvl acetate
acetate, attractant for, Spodoptera	with (E)-11-tetradecen-1-ol, (E)-11-	attractant for
litura 3237	tetradecenyl acetate, and (Z)-11-	Aphelia paleana 3235
with (Z)-11-tetradecenyl acetate	tetradecenyl acetate, mating	Archips podanus 3235
attractant for, Adoxophyes spp. 5274	disrupter for, Choristoneura rosaceana 4923	A. xylosteanus 3235 Argyrotaenia pulchellana 3235
synergists for 5274	with (Z)-11-tetradecenyl acetate	Discestra trifolii 3235
Tetradecanal, Heliothis virescens sex-	attractant for, Staphylinochrous	Eupoecilia angustana 3235
pheromone component 5329	whytei 688	Mamestra brassicae 3235
letradecanoic acid	mating disrupter for, Choristoneura	Zygaena ephialtes 3235
in Aphidoidea 1815	rosaceana 4923	with (Z)-11-methyl-9,12-tridecadienyl
hexyl ester, Colias philodice sex- pheromone component 5330	with (Z) -9-tetradecenyl acetate, and (Z) -	acetate, (9Z,12E)-9,12-
I-Tetradecanol	11-tetradecenyl acetate, <i>Pandemis</i> heparana sex pheromone 3480	tetradecadienyl acetate, and (Z)-9- tetradecenyl acetate, attractant for,
in Homoeosoma electellum 2206	acetate, (E)-	Adoxophyes spp. 6584
acetate	Adoxophyes orana sex-pheromone	with 10-methyldodecyl acetate, (Z)-9-
Mamestra brassicae sex-pheromone	component 739	tetradecenyl acetate, and (E)-11-
component 6059 on rubber septa, half-life of 4171	attractant for, Zeiraphera diniana 4108	tetradecenyl acetate, attractant for, Adoxophyes orana 739
Ostrinia nubilalis mating not affected by	in Choristoneura fumiferana sex-	with (9Z,12E)-9,12-tetradecadienyl
1747	pheromone gland 2204	acetate
Spodoptera litura mating not disrupted	in Ostrinia nubilalis, receptors for 1747	attractant for, Adoxophyes spp.
by 3237	in Tortricid sex pheromones 1731	5274
(1-Tetradecenal (E)-	with dodecyl acetate, and (Z)-11-	synergists for 5274 with (Z)-11-tetradecen-1-ol
in Choristoneura fumiferana sex-	tetradecenyl acetate	attractant for, Staphylinochrous
pheromone gland 2204	attractant for	whytei 688
with (Z)-11-tetradecenal	Aphelia paleana 3235	mating disrupter for, Choristoneura
attractant for, Choristoneura	Archips podanus 3235	rosaceana 4923 with (Z)-11-tetradecen-1-ol, and (Z)-9-
fumiferana 3582 Choristoneura fumiferana responses	A. xylosteanus 3235 Argyrotaenia pulchellana 3235	tetradecenyl acetate, Pandemis
to 2702	Discestra trifolii 3235	heparana sex pheromone 3480
effects of growth regulators on	Eupoecilia angustana 3235	with (E) -11-tetradecen-1-ol, (Z) -11-
3753	Mamestra brassicae 3235	tetradecen-1-ol, and (E)-11-
mating disrupter for, Choristoneura fumiferana 1737, 3582, 3598,	Zygaena ephialtes 3235 with 10-methyldodecyl acetate, (Z)-9-	tetradecenyl acetate, mating disrupter for, Choristoneura
6601	tetradecenyl acetate, and (Z)-11-	rosaceana 4923
(Z)-	tetradecenyl acetate, attractant for,	with (E)-11-tetradecenyl acetate
attractant for, Heliothis armigera 4145	Adoxophyes orana 739	Argyrotaenia velutinana responses to
dispensers for 4145	with (E)-11-tetradecen-1-ol, (Z)-11- tetradecen-1-ol, and (Z)-11-	1729
with (E)-11-tetradecenal attractant for, Choristoneura	tetradecen-1-01, and (2)-11-	attractant for, Doratopteryx plumigera 688
fumiferana 3582	disrupter for, Choristoneura	Ostrinia nubilalis sex pheromone.
Choristoneura fumiferana responses	rosaceana 4923	genetic differences in ratio of
to 2702	with (Z)-11-tetradecenyl acetate	741
effects of growth regulators on 3753	Argyrotaenia velutinana responses to 1729	Platynota stultana responses to 172 9-Tetradecen-1-ol
mating disrupter for, Choristoneura	attractant for, Doratopteryx	(Z)-
fumiferana 1737, 3582, 3598,	plumigera 688	in Homoeosoma electellum 2206
6601	Ostrinia nubilalis sex pheromone,	with (9Z,12E)-9,12-tetradecadien-1-ol,
2-Tetradecenal	genetic differences in ratio of 741	attractant for, Homoeosoma electellum 2206
(E)- attractant for, Orthosia hibisci 4904	Platynota stultana responses to 1729	acetate, (E)-
with (Z)-9-tetradecenal, attractant for,	acetate, (Z)-	mating disrupter for, Ostrinia nubilalis
Orthosia hibisci 4904	attractant for	1747
-Tetradecenal	Anarsia lineatella 3235 Aphelia paleana 3235	with (Z)-9-tetradecenyl acetate, attractant for, Spodoptera triturata
(Z)- attractant for	Archips podanus 3235	1749
Prays citri 1779	A. xylosteanus 3235	acetate, (Z)-
P. oleae 1779, 3507	Argyrotaenia pulchellana 3235	attractant for, Panolis flammea 2582
Prays oleae sex pheromone 3507	Discestra trifolii 3235	Busseola fusca sex pheromone 4720 in Agrotis ipsilon, receptors for 2691
P. oleae sex-pheromone component 3509	Eupoecilia angustana 3235 Mamestra brassicae 3235	mating disrupter for
-Tetradecenal	Tortrix viridana 2582	Apamea devastatrix 1135
(Z)-	Zygaena ephialtes 3235	Autographa californica 632
attractant for, Orthosia hibisci 4904	conformation of 666	Euxoa tristicula 686
Heliothis virescens sex-pheromone	in Ostrinia nubilalis, receptors for 1747	Mamestra brassicae 6059 Plutella xylostella 1135
component 5329 inhibitor of <i>Prays oleae</i> response to sex	in Tortricid sex pheromones 1731	Spodoptera littoralis 4698
pheromone 3507, 3509	inhibitor of Eucosma sonomana	S. litura 3237
mating disrupter for	response to sex pheromone 536	Plodia interpunctella
Apamea devastatrix 1135	mating disrupter for	electroantennogram responses to 6732
Plutella xylostella 1135 with (Z)-11-hexadecenal	Argyrotaenia velutinana 4923 Spodoptera litura 3237	with (Z)-9-dodecenyl acetate, attractan
attractant for	Żeiraphera diniana 3587	for, Spodoptera frugiperda 3886
Heliothis armigera 4145	with (Z) -9-dodecenyl acetate, and 11-	with (Z)-11-hexadecenyl acetate,
H. virescens 4073, 5329	dodecenyl acetate, Homona	Mythimna loreyi sex pheromone 1224
dispensers for 4073	magnanima sex pheromone 1222	1227

O-Tetradecen-1-ol contd.	Tetramorium aculeatum contd.	Tetranychus cinnabarinus
acetate, (Z)- contd.	in cacao plantations, effects of insecticides	acaricide resistance in, development of
with looplure	on 2043	6717
Agrotis ipsilon sex pheromone 2691	Tetramorium bicarinatum	control of
attractant for, Agrotis ipsilon 2691	in Canada 4428	acaricides for 490, 653, 3817, 3819,
with (Z)-11-methyl-9,12-tridecadienyl	in hothouses, in Manitoba 4428	6714, 6717
acetate, (9Z,12E)-9,12-	Tetramorium caespitum	growth regulators for 3817
tetradecadienyl acetate, and (Z)-11-	aggression of Myrmica rubra towards	diapause in 6
tetradecenyl acetate, attractant for,	1263	dimethoate resistance in, and cross-
		resistance 6717
Adoxophyes spp. 6584	control of, insecticides for 3118	gene flow between T. urticae and 6
with 10-methyldodecyl acetate, (E)-11-	in Spain 3836	in Brazil 2498
tetradecenyl acetate, and (Z)-11-	in food factories 3118	
tetradecenyl acetate, attractant for,	mandibular glands in, secretion of 4761	in Cape Verde 137
Adoxophyes orana 739	vertical distribution of 3836	in Egypt 2535, 3819, 4358 in India 267
with (Z) -11-tetradecen-1-ol, and (Z) -11-	Tetramorium guineense (see Pheidole	
tetradecenyl acetate, Pandemis	guineensis)	in Uganda 6545
heparana sex pheromone 3480	Tetramorium guineense auct. (see T.	in USA 308
with (E)-9-tetradecenyl acetate,	bicarinatum)	in Zimbabwe 5123
attractant for, Spodoptera triturata	Tetramorium sericeiventre, mandibular	life tables for 1822
1749	glands in, secretion of 4761	monocrotophos resistance in, and cross-
formate, (Z)-	Tetramorium simillimum	resistance 6717
	in Canada 4428	on cassava
Chrysoteuchia topiaria not responding		in Brazil 2498
to 2410	in hothouses, in Manitoba 4428	in Uganda 6545
in air, determination of 4312	Tetramorium termitobium, mandibular	on castor, in Haryana 267
in controlled-release formulations,	glands in, secretion of 4761	on cotton
distribution and dissipation in maize	Tetranactin	effects of humidity on 2535
fields of 5995	acaricidal activity of 6714	effects of temperature on 2535
mating disrupter for, Heliothis spp.	chemical properties of 6714	in Haryana 267
665	insecticidal activity of 6714	varietal preferences of 3819
Spodoptera littoralis not responding to	physical properties of 6714	on cucurbits, in Haryana 267
4698	Tetraneura kalimpongensis	on eggplant, in Haryana 267
Fetradifon (1-chloro-4-[(2,4,5-	sp. nov., description of 1834	on Lablab purpureus, in Haryana 267
trichlorophenyl)sulfonyl benzene)	in India 1834	on maize, effects of irrigation on 308
against	on Pennisetum, in West Bengal 1834	on okra, in Haryana 267
Brevipalpus pulcher, on Citrus 952	on sugar-cane, in West Bengal 1834	on spinach, in Haryana 267
Eutetranychus orientalis, on Citrus	Tetraneura lambersi	on Vigna unguiculata, in Haryana 267
2450	sp. nov., description of 1941	population dynamics of 2535
Polyphagotarsonemus latus, on	in India 1941	predators of
Phaseolus vulgaris 1008	on grasses, in Uttar Pradesh 1941	in Brazil 2498
Tarsonemus pallidus, on strawberry	Tetraneura nigriabdominalis	in Zimbabwe 5123
6450	food-plants of 3918	preyed on by, Typhlodromus athiasae
Tetranychus cinnabarinus 3817	in Sierra Leone 3918	2454
T. desertorum, on Phaseolus vulgaris	on rice, in Sierra Leone 3918	taxonomy of 6
1008	seasonal abundance of 3918	Tetranychus cucurbitacearum (see T.
T. urticae 1041	Tetraneura ulmi	cinnabarinus)
rainfall and particle size as affecting	in USA 5061	Tetranychus desertorum
	in USSR 3376	control of, acaricides for 1008
3216		
resistance to, in, Tetranychus urticae	on grain crops, in Kazakhstan 3376	in Colombia 1008
1040	on Ulmus, in Pennsylvania 5061	in USA 1488
synergists for, piperonyl butoxide as	parasites of, in Kazakhstan 3376	on cucurbits, in California 1488
1041	preyed on by, Scymnus brullei, in	on Phaseolus vulgaris, in Colombia 1008
with dicofol	Pennsylvania 5061	Tetranychus evansi
against, Tetranychus urticae, on Citrus	Tetranychidae	in Brazil 5701
4569	control of, acaricides for 220, 1505,	on tomato, development of infestation
in Cales noacki, not toxic 3493	2640, 2951, 3816, 4383, 6464, 6544	with 5701
in Phytoseiulus persimilis, toxicity of	in Madhya Pradesh 4295	Tetranychus gloveri
4050	in Rajasthan 1361	taxonomy of
Tetragnatha	in South Africa 695	misidentified as T. tumidus 4410
in rice-fields	karyotypes of 4411	Tetranychus antillarum as synonym of
effects of insecticides on 6411	on apple, in Poland 6464	4410
in Kerala 3939	on cassava	T. quinquenychus as synonym of 4410
preying on, Nilaparvata lugens 3939	damage caused by 6544	Tetranychus kanzawai
Tetragnatha virescens	key 6545	biology of 1821
sp. nov., description of 4512	varietal preferences of 6543	control of, acaricides for 1704, 6714
in Indonesia 4512	on cotton	dispersal of, effects of population density
in Malaysia 4512	in Egypt 3816	on 4825
in Philippines 4512	resistance to 2520	life-tables for 1821
in Sri Lanka 4512	on Quercus, in Texas 3061	reproduction in, effects of humidity on
in Thailand 4512	on raspberry, varietal preferences of	1293
in rice-fields, in tropical Asia 4512	6451	Tetranychus lombardini
letragnathidae, in forests, effects of acephate	on Solanum, in Kenya 6515	control of, acaricides for 988, 2982
on 2073	on vegetable crops, in Kenya 1505	in South Africa 988, 2982
etragonus, Diplazon	preyed on by	on banana, in South Africa 988, 2982
Tetraleurodes semilunaris	Stethorus histrio, in Chile 1445	Tetranychus ludeni
control of, insecticides for 1942	Wollastoniella gatti, in Kenya 6515	in India 994
descriptions of 1942	tetranychivorus, Typhlodromips	on Lablab purpureus, in Karnataka 994
in India 1942	Tetranychus	on Sechium edule, in Karnataka 994
on Cymbopogon flexuosus, damage caused	control of 5714	preyed on by, Typhlodromips
by 1942	acaricides for 650	tetranychivorus, in Karnataka 994
Tetralopha robustella	biological 2653	Tetranychus macfarlanei
biology of 5161	integrated 3046	in India 4295
in USA 5161	on almond, in California 3994	on castor, in Madhya Pradesh 4295
on Pinus elliottii, in Florida 5161	on cotton, in Tadzhikistan 5714	Tetranychus marianae, distribution map for
parasites of, in Florida 5161	on Eichhornia crassipes, in Mexico 1665	3303
Fetramoriini, mandibular glands in,	preyed on by	Tetranychus neocaledonicus
secretion of 4761	Amblyseius bibens, in Malagasy	in India 267
Tetramorium	Republic 4992	in New Caledonia 2840
chemical crypsis in 1876	Oligota spp. 2766	on Dolichos biflorus, in Haryana 267
prey of, not repelled by mandibular-gland	Stethorus fijiensis 2840	on eggplant, in Haryana 267
secretion 1876	Tetranychus antillarum, taxonomy of,	on Lagenaria siceraria, in Haryana 267
Tetramorium aculeatum		
	synonym of T. gloveri 4410	on Momordica charantia, in Haryana
in Ghana 2043	Tetranychus arabicus (see T. urticae)	267

•		1137
Tetranychus neocaledonicus contd.	Tetranychus urticae contd.	Tetranychus urticae contd.
on Vigna mungo, in Haryana 267	in Poland 3566, 6451	rearing of
preyed on by, Stethorus proximus, in New	in Romania 5481	diets for 807
Caledonia 2840	in Switzerland 1456, 5589	techniques for 628
Tetranychus pacificus	in Uganda 6545	
control of, acaricides for 1152	in UK 268, 1451, 4050, 5735, 6508	reproduction in 5018
cycloprate in, mode of action of 1152		effects of food-plant on 3566
	in USA 229, 954, 1440, 1488, 1522,	effects of humidity on 1293
in USA 1488, 1522, 3994	1976, 3483, 3987, 4552, 4613, 5609	effects of virus-infected food-plants on
on almond	on apple	4749
damage caused by 3992	in Iowa 954	reproductive system in 4412
in California 3994	in Massachusetts 4552	sex pheromone of 4409
on cucurbits, in California 1488	in New Zealand 1155	sperm in, recovery from X-ray damage to
on soyabean, resistance to, evaluation of	in Ohio 1976	769
1522	in Switzerland 1456	spinning behaviour in 1261
outbreaks of, caused by insecticides 3994	in Tasmania 963	taxonomy of 6
predation of, model 4458	in Victoria 6460	thiometon resistance in, in Czechoslovakia
predators of	on Capsicum, in Netherlands 193	3357
effects of insecticides on 3994	on cassava	Tetraopes tetrophthalmus
in California 3994	in Brazil 2498	in USA 272
preyed on by, Phytoseiulus persimilis	in Uganda 6545	
4458	on Chrysanthemum, in Florida 4613	on Asclepias syriaca, in Ohio 272
Tetranychus piercei	on Citrus, in Egypt 976, 977	Tetrapodili (see Eriophyoidea)
chromosomes in 705	on cotton	Tetrapus, in Trinidad 2768
descriptions of 705	effects of humidity on 2535	Tetrastichus
food-plants of 705	effects of temperature on 2535	biology of 5572
in Hong Kong 705	in Brazil 1545, 1546	control of, repellents for 2924
in Indonesia 705	on cucumber	diapause in 1417
in Japan 705	effects of cucumber mosaic virus on	host selection in 6502
in Malaysia 705	4749	hyperparasitising
in Philippines 705	in Netherlands 193	Cerococcus ornatus, in Tamil Nadu
in Taiwan 705	in Ohio 229	6577
reproduction in 705	in UK 6508	Pseudaonidia duplex, in Taiwan 2046
Tetranychus quinquenychus, taxonomy of,	resistance to 5102	in Ghana, introductions of 4497
synonym of T. gloveri 4410	on cucurbits, in California 1488	in rice-fields, effects of insecticides on
Tetranychus telarius (see T. urticae)	on grapevine, in Switzerland 5589	6411
Tetranychus tumidus, taxonomy of,	on hop, in Czechoslovakia 3357	parasitising
Tetranychus gloveri misidentified as	on lemon, in Italy 4569	Aphytis spp., in Taiwan 2046
4410	on peach	Bruchus signaticornis, in France 5667
Tetranychus turkestani	in Egypt 971	Contarinia sorghicola 5572
control of, acaricides for 4384	in Victoria 6460	in Karnataka 1417
in Iraq 4384	on pear	Crioceris duodecimpunctata, in
in USA 1488	effects of sprinkler irrigation on 5609	Netherlands 6502
on cotton, effects of insecticides on 4384	not affected by insect growth regulators	Dasineura brassicae, in Poland 2996
on cucurbits, in California 1488	3483	Henosepilachna vigintioctopunctata, in
Tetranychus urticae	on Pelargonium grandiflorum, in Egypt	Karnataka 3017
acaricide resistance in 1812	2048	Maruca testulalis, in Nigeria 6514
and cross-resistance 1040	on Pelargonium zonale, in Egypt 2048	Megachile rotundata 2924
effects of synergists on 1041	on Phaseolus vulgaris, development of	Nilaparvata lugens
activity in	5102	in Orissa 327
effects of substrate on 4999	on Plantago major, development of 5102	in Philippines 3967
effects of temperature on 4999	on potato, development of 5102	Orgyia pseudotsugata, in New Mexico
azinphos-methyl resistance in	on raspberry, varietal preferences of	1070
and negative cross-resistance 1155	6451	Sogatella furcifera, in Philippines 3967
in New Zealand 1155	on rose 508	preyed on by, Holcocephala fusca, in
biology of 268	in England 5735	Virginia 3350
chromosomes in, effects of X-irradiation	on soyabean, resistance to, evaluation of	preying on
on 6092	1522	Nilaparvata lugens, in Philippines
control of	on strawberry	3967
acaricide-fungicide mixtures for 4613	damage caused by 3986, 3987	Sogatella furcifera, in Philippines 3967
acaricides for 229, 268, 508, 652, 674,	effects of 2426	Tetrastichus asparagi
965, 971, 976, 977, 1039, 1040,	in Florida 1440	host selection in 6502
1041, 1155, 1440, 1456, 1545, 1546,	resistance to 6449	in Netherlands 6502
1976, 3357, 3987, 4050, 4569, 5589,	on sugar-beet, effects of beet mosaic virus	parasitising, Crioceris asparagi, in
5735, 5886, 6714, 6716	on 4749	Netherlands 6502
biological 193, 203, 229, 268, 508,	on tobacco, development of 5102	Tetrastichus ayyari
628, 963, 4049, 4050, 5481, 5735,	on tomato	hosts of 1001
5921, 5925, 5947, 5950, 6460	in Austria 1756	in Malaysia 1001
cultural 5609	in Belgium 221	parasitising, Plutella xylostella, in West
integrated 229, 508	in Scotland 4050	Malaysia 1001
repellents for 221	on Trifolium pratense	sex ratio in 1001
development in 719	development of 719	Tetrastichus brontispae
diapause in 6	in Japan 5921	in Society Islands 1833
egg-hatch in	oxamyl in, metabolism of 4150	parasitising
effects of humidity on 2259	parathion-methyl resistance in 6716	Brontispa longissima
effects of temperature on 2259	population dynamics of 2535	and biological control using, in
enzymes in 1812, 4154, 4155	predators of	Solomon Islands 3698
fenvalerate in, effects on feeding behaviour	attraction by kairomones of 4905	in Tahiti 1833
of 1976	effects of insecticides on 965, 3812	Tetrastichus cecidivorus
food-plant range in, evolution of 5102	effects of pesticides on 202, 229, 508,	sp. nov., description of 1099
food-plants of 268	4050	in USA 1099
formamidines in, mode of action of 3196	in Brazil 2498	parasitising
gene flow between T. cinnabarinus and 6	in California 3987	Paradiplosis tumifex 1100
in Australia 963, 5947, 5950, 6460	insecticide resistance in 963	in Maine 1099
in Austria 1756	preyed on by	Tetrastichus diplosidis
in Belgium 221	Aegyptocheyla summersi, in Egypt	attraction of, to host food-plants 2407
in Brazil 1545, 1546, 2498	2048	emergence in 919
in Czechoslovakia 3357	Chrysopa carnea 3040	in USA 919, 2407
in Egypt 971, 976, 977, 2048, 2535	Neoseiulus fallacis 4905	parasitising
in Irish Republic 5925	N. longispinosus, in Hokkaido 3841	Contarinia sorghicola
in Italy 209, 4569	Orius minutus 2959, 3473	in Florida 919
in Japan 3841, 5921	Phytoseiulus macropilis 838	in Georgia (USA) 2407
in Netherlands 193	P. persimilis 2744, 3812, 4999	Tetrastichus dolosus
in New Zealand 1155	pyrethroids in, toxicity of 5886	in USA 5665

```
Tetrastichus dolosus contd.
                                                                                        tetricus, Bruchus (see Acanthoscelides
                                                                                                                                                                                Texas contd.
    parasitising, Euplectrus spp., in USA
                                                                                              obtectus)
                                                                                                                                                                                    Suleima helianthana in, on sunflower
                                                                                        Tetrigidae, in Fennoscandia tetrophthalmus, Tetraopes
          5665
                                                                                                                                                                                          478
Tetrastichus dryi, parasitising, Trioza
erytreae, and biological control using, in
Réunion 5077
                                                                                                                                                                                     Tetranychus cinnabarinus in, on maize
                                                                                         Tetropium, in spruce wood, in Finland
                                                                                                                                                                                          308
                                                                                              4102
                                                                                                                                                                                     Thrips tabaci in, on cotton 4071
                                                                                        Tettigella spectra (see Cofana spectra)
Tettigometra vitellina
Tetrastichus epicharmus
biology of 2997
in Poland 2996, 2997
                                                                                                                                                                                    Zygogramma disrupta in, on Ambrosia
273
                                                                                             in USSR 2346
    parasitising, Dasineura brassicae, in
Poland 2996, 2997
                                                                                             on Tamarix, in Turkestan 2346
                                                                                                                                                                                     insect pests of, changes in status of 3334
                                                                                         Tettigonia subvirescens, taxonomy of,
                                                                                                                                                                                     Thylodrias contractus in 5799
Tetrastichus euplectri
                                                                                              transferred to Cofana 287
                                                                                                                                                                                Textiles, rayon, Lepisma saccharina in, in Bermuda 3837
                                                                                         Tettigoniella spectra, taxonomy of,
transferred to Cofana 287
    in USA 5665
                                                                                                                                                                                Textiles, wool, pest control in, insecticides for 2158
    parasitising, Euplectrus spp., in USA
          5665
                                                                                        Tettigoniidae
                                                                                                                                                                                TH-6040 (see Diflubenzuron)
Tetrastichus incertus
                                                                                            in Australia 1841
                                                                                             in Fennoscandia 139
    oviposition in, effects of host density on
                                                                                                                                                                                 Thaia oryzivora
          2926
                                                                                             taxonomy of 5291
                                                                                                                                                                                    in Bangladesh 3964
parasitising, Hypera postica 2926
Tetrastichus julis
                                                                                        Tettigonioidea
                                                                                                                                                                                     on rice, damage caused by 3964
                                                                                             auditory system in 2185
                                                                                                                                                                                Thailand
   in Canada 2635
in USA 4504
                                                                                             chorion in 5457
                                                                                                                                                                                    Acrididae in 2320
                                                                                                                                                                                    Apis florea in, mite enemies of 602
Cheiracus sulcatus in, on rice 5551
Chilo polychrysus in, on rice 6411
                                                                                        Tetyra bipunctata
in USA 1079
    in oat fields, effects of tillage on 873
    parasitising
                                                                                             on Pinus echinata, in Oklahoma 1079
        Oulema melanopus
and biological control using
                                                                                        texana, Mocis
                                                                                                                                                                                     C. suppressalis in, on rice 6411
                                                                                         texana, Solenopsis
                                                                                                                                                                                     Cisaberoptus kenyae in, on mango cotton in, insect pests of 2539
                in Ohio 873
                in Ontario 6348
in Wisconsin 6364
                                                                                            Actinidae in, in arid grassland 4523
Actenodes davidi in, on Gleditsia 1583
                                                                                                                                                                                     Heliothis armigera in, natural enemies of
                                                                                                                                                                                     2539, 5128
locusts in 2320
                                                                                            Aleurocanthus woglumi in 980
on Citrus 1987, 1988
Anthonomus grandis in, on cotton 484,
2534, 3042, 3554, 3555, 4602, 4605
Cerambycidae in 1076
            in North Carolina
                                                4504
            in Ontario 2635
                                                                                                                                                                                     Melanagromyza spp. in, on Vigna radiata
pyrethroids in, toxicity of 2635
Tetrastichus mandanis
in Italy 5512
                                                                                                                                                                                   Nephotettix nigropictus in, natural enemies of 911, 912

N. virescens in, natural enemies of 911
Nezara viridula in, on Vigna radiata 43
Nilaparvata lugens in 6719
natural enemies of 911, 912
on rice 2381, 2397, 3951
Ophiomyia phaseoli in natural enemies of 3522
on Vigna radiata 430
Orseolia oryzae in natural enemies of 2911
on rice 2909, 3909, 6394
Pinus spp. in, insect pests of 5175
Pipunculidae in, in rice-fields 913
Pyrgomorphidae in 2320
                                                                                            cotton in, pest control on Culex tarsalis in 678
    parasitising, Conomelus dehneli, in Italy
5512
                                                                                                                                           1549
Tetrastichus marcovitchi, parasitising,
Paradiplosis tumifex 1100
Tetrastichus minutus
in USA 2917
                                                                                             Curculio caryae in, on pecan 3462
                                                                                            Cydia caryana in natural enemies of 3993 on pecan 3993
Cylindrocopturus adspersus in, on sunflower 3543
    parasitising
        Aphelinus nigritus, in Texas 2917
Lysiphlebus testaceipes, in Texas 2917
                                                                                             Datana integerrima in 6223
                                                                                            Dendroctonus spp. in, on Pinus 5191

D. frontalis in 558, 783, 1210

natural enemies of 524, 2561, 3589

on Pinus 539, 542, 1581, 2565, 3590, 5751
Tetrastichus nyemitawus
    in India 921
    parasitising, Atherigona soccata, in
Maharashtra 921
Tetrastichus ovulorum, parasitising,
                                                                                                                                                                                     Pyrgomorphidae in 2320
      Henosepilachna vigintioctopunctata, in
Karnataka 3017
                                                                                             Diabrotica virgifera in, on maize 5539
Diatraea saccharalis in
                                                                                                                                                                                        insect pests of 325, 900 pest control on 325, 5567
Karnataka 3017
Tetrastichus purpureus 2046
Tetrastichus radiatus
in India 1467, 5077
parasitising, Diaphorina citri, and
biological control using, in Réunion
1467, 5077
Tetrastichus schoenobii
in Bangladesh 6425
in India 5549, 6395
parasitising
                                                                                                natural enemies of 3358
on maize 1914, 3358
on sorghum 1914, 3358
on sugar-cane 288, 1914, 3358
                                                                                                                                                                                     Scirpophaga incertulas in, on rice
Sogatella furcifera in 6719
natural enemies of 911, 912
                                                                                                                                                                                                                                                  3414
                                                                                                                                                                                    stem borers in, on rice 3968
Strepsiptera in 4188
Tetragnathidae in 4512
Trichogrammatidae in, in rice-fields 2370
                                                                                             Eucosma womonana in, on sunflower
                                                                                                  2034
                                                                                             Frankliniella spp. in, on cotton 3554,
                                                                                                  4071
                                                                                            Gryllus integer in 2741
Heliothis spp. in
on cotton 1045, 5725
                                                                                                                                                                                Vigna radiata in, insect pests of 451 thalassina, Bathycoelia thalassinus, Aiolopus Thamnurgus orientalis
    parasitising
Scirpophaga incertulas 2235
in Bangladesh 6425
in Karnataka 5549
                                                                                            on soyabean 1045
H. virescens in 92
    in West Bengal 6395
reproduction in 2235
                                                                                                                                                                                    sp. nov., description of 2079 in Israel 2079
                                                                                                natural enemies of 4603
                                                                                                on cotton 2518
Tetrastichus servadeii
in Italy 3079
                                                                                            H. zea in 1048
on maize 65
                                                                                                                                                                                on Cotoneaster, in Israel 2079
Thanasimus dubius
    parasitising, Thaumetopoea pityocampa, in Italy 3079
                                                                                                on sorghum 65
on tomato 4051
                                                                                                                                                                                    aggregation in development in
                                                                                                                                                                                                                524, 3589
                                                                                                                                                                                    uevelopment in
effects of prey on 6595
effects of temperature on 6595
in USA 520, 524, 539, 3589, 3590, 6595
parasitised by, Hyalomyodes triangulifera,
in Georgia (USA) 520
prey aggregation disrupters not affecting
539
Tetrastichus silvaticus
in USA 2568
                                                                                             Ips avulsus in, on Pinus 3590
Keiferia lycopersicella in, on tomato
m USA 2006
parasitising, Malacosoma disstria, in
Minnesota 2568
Tetrastichus sokolowskii
in USA 1000
parasitising, Plutella xylostella, in Florida
                                                                                                  4051
                                                                                             Kilifia americana in, on Citrus 704
                                                                                            Melanoplus spp. in 820
Melanoplus spp. in 820
Melolonthidae in, in lawns 4939
mites in, on Quercus 3061, 3062
Nola sorghiella in, on sorghum 1415
Oligonychus pratensis in
natural enemies of 920
on maize 308
           1000
                                                                                                                                                                                     preying on
Tetrastichus sugitamabae
illustrations of 5737
in Japan 5737
                                                                                                                                                                                Dendroctonus frontalis 6595
in Texas 524, 3589, 3590
Thaneroclerus buquet
in India 3677
in Nigeria 6646
in Areca cetechu puta in Kontalia
                                                                                            Panonychus citri in, on Citrus 6488
Papilio cresphontes in, on Choisya 1064
Phyllophaga crinita in 2234
Planococcus citri in, on Citrus 3500
Polistes spp. in 4448
Psallus seriatus in, on cotton 2541
    parasitising, Contarinia inouyei, in Japan
          5737
Tetrastichus trisulcatus
in USA 4485
                                                                                                                                                                                     in Areca catechu nuts, in Karnataka
                                                                                                                                                                                          3677
                                                                                                                                                                                in cacao beans, in Nigeria 6646
phosphine in, toxicity of 6646
Thanite (see Acetic acid, thiocyanato-, 1,7,7
trimethylbicyclo[2.2.1]hept-2-yl ester,
    parasitising, Arge humeralis, in Florida
          4485
Tetrastichus whitmanl, parasitising,
Paradiplosis tumifex 1100
Tetratriacontane, 11,12-dimethyl-, in
                                                                                             Rhopalosiphum maidis in, natural enemies
                                                                                                   of 2917
                                                                                             Schizaphis graminum in, natural enemies of 2917, 3882
                                                                                                                                                                                Thaumatomyia notata
in France 828
Lasioderma serricorne cuticle 5331
Tetratriacontane, 12,13-dimethyl-, in
                                                                                             Solenopsis invicta in, in cotton fields
4601
                                                                                                                                                                                    in dwellings, in France 828
       Lasioderma serricorne cuticle
```

aoject index		1135
haumetopoea pityocampa	Therioaphis trifolii contd.	Thiometon contd.
biology of 5188	in Australia 1954	against contd.
control of biological 3609	on lucerne, damage caused by 1954	Amrasca biguttula, on castor 5710
collecting larval nests for 5188	Therioaphis trifolii maculata control of	Argyroploce leucaspis, on Litchi chinensis 6497
growth regulators for 5188	biological 3343, 4539, 5951, 6437	Baliothrips biformis, on rice 3391
descriptions of 5188	cultural 4539	Drosophila melanogaster 2636
in Italy 3079, 3609, 5188	insecticides for 2296, 4539, 4541, 6437	Scirtothrips dorsalis, on Capsicum
nervous system in, peptides in 2700 on <i>Pinus</i>	food-plants of 930 in Australia 4539, 4541, 5951, 6437	6554 Sitobion rosaeiformis, on rose 5137
forecasting infestations of 5188	in Mexico 2296, 2307	in Coccinella repanda, toxicity of 6725
in Italy 3079	in USA 3343	in Drosophila melanogaster, effects of
on Pinus radiata, in Italy 3609 parasites of, in Italy 3079	insecticide resistance in detecting and measuring of 3709	application site on susceptibility to 2636
haumetopoea processionea	in New South Wales 4541, 6437	in Rhopalosiphum maidis, not affecting
control of, biological 1588	on lucerne	hemocytes 2696
in West Germany 1588 on Quercus, in West Germany 1588	damage caused by 2307 in Mexico 2296	resistance to, in Tetranychus urticae, in Czechoslovakia
haumetopoeidae, in British Isles 163	in Oklahoma 3343	3357
hea sinensis (see Tea)	in Western Australia 4539	Therioaphis trifolii, in New South
hea vigintiduopunctata in USSR 3376	resistance to 3452, 3453 varietal preferences of 6434, 6437	Wales 4541 Thionazin (O,O-diethyl O-pyrazinyl
preying on, grain aphids, in Kazakhstan	on Medicago, varietal preferences of 931,	phosphorothioate)
3376	6437	against
neae, Aphytis neae, Fiorinia	on pasture legumes, damage caused by 930	Myzus persicae on eggplant 5700
neae, Parametriotes (see Tetanocentria)	predators of, effects of insecticides on	on potato 5700
neae, Tetanocentria (Parametriotes)	6725	agroavailability of 5700
hecodiplosis japonensis in Japan 5737	preyed on by Coccinellidae, in New South Wales	Thioperoxydicarbonic diamide ([(H ₂ N)C(S)] ₂ S ₂), tetramethyl- (see
in South Korea 5737	6437	Thiram)
parasites of	Hippodamia convergens 2826	Thiophanate-methyl (dimethyl [1,2-
in Japan 5737 in South Korea 5737	Thermobia domestica collagens in, biosynthesis of 4227	phenylenebis(iminocarbonothioyl)]bis[carbamate])
neivora, Caloptilia	moulting hormones in, during moulting	in integrated control programmes 209
helairosoma palposum	cycles 4783	in orchards, effects on entomogenous
in Nigeria 6514 parasitising, <i>Maruca testulalis</i> , in Nigeria	Thevetia thevetioides, insecticidal activity of extracts of 3716	fungi of 1450 Thiotepa (1,1',1"-phosphinothioylidynetris[a
6514	1,3,4-Thiadiazol-2(3H)-one, 5-methoxy-, in	ziridinel)
helaxidae, in urban areas, in West	soil, methidathion photoproduct 1713	in Acyrthosiphon pisum, effects of 4818
Germany 4300 helohania	2H-1,3-Thiazine, tetrahydro-2- (nitromethylene)-	4820 Thiourea, sterilant for, Callosobruchus
in	in vertebrates, toxicity of 660	chinensis 5355
Archips cerasivoranus, in Ontario	insecticidal activity of 660	Thiram (tetramethylthioperoxydicarbonic
Charistanaum fumifarana in Ontaria	2,4-Thiazolidinedione, 3,5,5-trimethyl-, 2-[O-	diamide ([(Me ₂ N)C(S)] ₂ S ₂))
Choristoneura fumiferana, in Ontario 6633	[(methylamino)carbonyl]oxime] (see Tazimcarb)	with benomyl, against, pests and diseases of cauliflower 1498
C. occidentalis, in British Columbia	Thimet (see Phorate)	with insecticides, against, pests and
6637	Thimul (see Endosulfan)	diseases of Chrysanthemum 4613
helohania cheimatobiae, in, Operophtera brumata, in West Germany 546	Thiocyanate, in Locusta migratoria, inhibiting adenosine triphosphatase	Thistle, Eurygaster integriceps on 6351 Thistle, bull (see Cirsium vulgare)
hemeda triandra, Hodotermes mossambicus	2193	Thistle, creeping (see Cirsium arvense)
on, development of 6334	Thiocyanic acid (2-benzothiazolylthio)methyl ester	Thistle, milk (see Silybum marianum) Thistle, musk (see Carduus nutans)
neobaldi, Resseliella (Thomasiniana)	against, Aspergillus niger, in insect	Thistle, nodding (see Carduus nutans)
neobaldi, Thomasiniana (see Resseliella	rearing media 3324	Thistle, plumeless (see Carduus acanthoides
theobaldi) heobroma cacao (see Cacao)	in Heliothis virescens, toxicity of 3324 Thiocyclam (N,N-dimethyl-1,2,3-trithian-5-	Thistle, Russian (see Salsola iberica) Thlaspi arvense
neobroma, Distantiella	amine)	glucosinolates in 282
heophila mandarina (see Bombyx	against	Phyllotreta armoraciae on, not feeding
mandarina) eophilae, Telenomus	Agrotis segetum 6709 Euproctis melania 3798	282 Thomasiniana oculiperda (see Resseliella
heophylline (see 1H-Purine-2,6-dione, 3,7-	Thiodan (see Endosulfan)	oculiperda)
dihydro-1,3-dimethyl-)	Thiodemeton (see Disulfoton)	Thomasiniana oleisuga (see Clinodiplosis
hera albonigrata, eggs of 572	Thiodicarb (dimethyl N, N'- [thiobis[(methylimino)carbonyloxy]]bis[e-	oleisuga) Thomasiniana theobaldi (see Resseliella
hera cognata, eggs of 572 hera firmata, eggs of 572	thanimidothioate])	theobaldi)
hera juniperata, eggs of 572	against	Thomisidae
hera obeliscata, eggs of 572 hera stragulata, eggs of 572	Anticarsia gemmatalis, on soyabean 3007	in Alaska 2816 in Canada 2816
hera variata, eggs of 572	Heliothis virescens, on cotton 4060	in cotton fields, effects of insect-resistant
hereuonema hilgendorfi, Chilo iridescent	Plusia spp., on soyabean 3007	varieties on 1047
virus in, replication of 3151 heridiidae	Viteus vitifoliae, on grapevine 1965 Thiofanox (3,3-dimethyl-1-(methylthio)-2-	in rice-fields, in West Bengal 4507 Thomisus, preying on, Macrosiphum rosae,
in forests, effects of acephate on 2073	butanone O-[(methylamino)carbonyl]o-	in India 2820
prey selectivity in 6324	xime)	thompsoni, Aphidoletes
heridion, preying on, Aphis craccivora, in	against Geococcus coffeae, on coffee 1055	thompsoni, Lydella thompsoni, Perkinsiella
India 2820 heridion albidum	Myzus persicae, on potato 219, 3016	thomsoni, Cephaloserica
in USA 4919	Phyllocoptruta oleivora, on Citrus	Thomsonisca Development of the development
in apple orchards, in Virginia 4919	5623 Phyllotreta spp., on rape 3813	parasitising, <i>Pseudaonidia duplex</i> , in Taiwan 2046
prey of 4919 heridion murarium	Psylliodes chrysocephalus, on rape	taxonomy of 4447
in Canada 387	3813	Thomsonisca sankarani
in apple orchards, in Quebec 387	Rhizoecus nemoralis, on coffee 1055 Spodoptera littoralis, on cotton 4385	sp. nov., description of 4447 in India 4447
heridionidae, Beauveria tenella in, infectivity of 2117	with insect growth regulators 4385	Thomsonisca typica
herioaphis maculata (see T. trifolii	Thiometon (S-[2-(ethylthio)ethyl] O,O-	in Japan 3056
maculata)	dimethyl phosphorodithioate) against	parasitising, <i>Pseudaulacaspis pentagona</i> , i Japan 3056
herioaphis trifolii control of	Achaea janata, on castor 5710	thoracica, Diopsis (see D. macrophthalma)
economics of 1954	Acrocercops cramerella, on Litchi	thoracicus, Sigalphus (see Triaspis
incontinides for 1054	chinensis 408	thoracicus)

5605

1587

5402

thoracicus, Triaspis (Sigalphus) Thrips tabaci contd. Thysanoptera contd. tomato spotted wilt virus in, transmission of 1554 Thornapple (see Datura stramonium) in soil, extracting of 4872 in wheat fields, in Bulgaria Thosea asigna, parasitised by, Trichogrammatoidea thoseae 2169 on apple, in Norway thuiella, Argyresthia on Cajanus cajan, in Nigeria 1016 on cassava 1023 Thuja, Lachnidae on, in Italy 2082 thoseae, Trichogrammatoidea Thuja occidentalis L-Threonine Argyresthia thuiella on, in Ontario 2584, on cucumber, in UK 6508 in Sitophilus oryzae diet, requirement for on safflower, in Mexico 2298 3269 on safflower, in Mexico 2298
on soyabean
in Kenya 1520
in Missouri 459
in New South Wales 1518
on sunflower, in Kenya 1541
on Vigna radiata, in India 440
on wheat, in Bulgaria 301
predators of, in Tamil Nadu 3558
preyed on by, Anthocoridae, in India 5468
rearing of techniques for 1300 in Spodoptera littoralis hemolymph, not affected by DDT 3818 Carulaspis juniperi on, in Pennsylvania 2068 Pulicalvaria thujaella on, in Ontario 2584, 5760 Thripidae in China 4867 Thuja orientalis, Cinara tujafilina on, in Netherlands 533
Thuja plicata, Lampra festiva on, damage caused by 2575
thujaella, Pulicalvaria
Thurkeris Collistanalus historistus on in grassland, in Irish Republic 3436 Thrips (see Thysanoptera) Thrips in Indian region 4199 taxonomy of 4199 wing-beat frequency of, measuring of Thunbergia, Callirhopalus bifasciatus on 5135 rearing of, techniques for 1320
Thysanus, parasitising, Hemiberlesia
lataniae, in Florida 5142
Thysanus ater
in USSR 4980 1846 thurberiella, Bucculatrix
Thuricide HP (see Bacillus thuringiensis
var. kurstaki) Thrips angusticeps biology of 5670 control of 5670 Thuricide 16B (see Bacillus thuringiensis var. kurstaki) descriptions of 5670 in UK 5670
on pea, damage caused by 5670
Thrips carthami
in India 5070 parasitising, Quadraspidiotus perniciosus, in USSR 4980 Thyanta pallidovirens
control of, insecticides for 4586
in USA 4586 tibetensis, Pemphigus tibialis, Chaetocnema tibialis, Conotrachelus on apple, in Himachal Pradesh 5070 on plum, in Himachal Pradesh 5070 in soyabean fields, effects of insecticides on 4586 tibialis, Dicraeus Thrips exilicornis, taxonomy of, synonym of tibialis, Exochus tibialis, Hippodamia tredecimpunctata parathion-methyl in, developmental T. hawaiiensis 4199 changes in susceptibility to 4586 tibialis, Paragus tibiatorius, Diplazon Tibicen canicularis, preyed on by, Sphecius speciosus 1889 Thrips flavus in India 5070 Thyatiridae
in Italy 6125
taxonomy of 5295
thyellina, Orgyia
Thylodrias, rearing of, diets for 178
Thylodrias contractus
biology of 5799
descriptions of 5799
in Italy 5799
in biscuits, in Italy 5799
in offices, in Italy 5799
taxonomy of 5799
Thyme (Thymus vulgaris) Thyatiridae in India 5070
on apricot, in Himachal Pradesh 5070
on pear, in Himachal Pradesh 5070
on plum, in Himachal Pradesh 5070
Thrips floreus, in China 4867
Thrips hawaiiensis
in Malaysia 1437
on oil palm, pollination by 1437
taxonomy of, Thrips exilicornis as synonym of 4199
Thrips nigropilosus, in China 4867
Thrips palmi
in Philippines 3952
on Vigna unguiculata, effects of cultural Tibicen lyricen, preyed on by, Sphecius speciosus 1889 Tiger beetle (see Cicindelidae) tigrinus, Goes tigripes, Opsius Til (see Sesame) Tilia Eucallipterus tiliae on in UK 5156 model 6591 Thyme (Thymus vulgaris)
as companion crop for insect control
3512 on Vigna unguiculata, effects of cultural insect communities on, in urban areas practices on 3952 not protecting cabbage against lepidopterous pests 2471

Thymelicus lineola 5759 Thrips physapus, wing mechanics in 4760 Thrips tabaci Loxostege sticticalis on, in USSR 6585 Lymantria dispar on control of 5699 baculovirus in, specificity of 604 biology of 6245 control of development of in Poland 3592 in USSR 6585 insecticides for 202, 1554, 2038, 3038, 3819, 4071, 5127, 5697 timing of 202, 2038 in USSR 6585
Tenthredinidae on, in Europe 5746
Tiliaphis spp. on, in North Korea 5
tiliae, Eucallipterus
tiliae, Typhlodromus (see T. pyri)
Tiliaphis coreana
sp. nov., description of 5402
in North Korea 5402
on Tilia, in North Korea 5402
Tiliaphis pseudoshinae
sp. nov., description of 5402
in North Korea 5402
on Tilia, in North Korea 5402
on Tilia, in North Korea 5402
tiliarum, Typhlodromus
Tillage, of maize fields, effects on
Elasmopalpus lignosellus of 1387 biological 604, 3978 insecticides for 3978, 6245 in Canada 604, 3978 in USA 6245 Entomophthora spp. in, in Netherlands 202 E. parvispora in, in Netherlands 1634
 E. sphaerosperma in, effects of fungicides on 6136 in USA 6245
on grasses, in Michigan 6245
on Phleum pratense, in Quebec 3978
Thymol (see Phenol, 5-methyl-2-(1methylethyl)-)
Thymus vulgaris (see Thyme)
Thyraeella collaris (see also Diadromus on 6136
E. thripidum in, in Netherlands 1634
in Cyprus 5078
in Egypt 1013, 3819, 4358
in India 3038, 5127, 5468, 5697
in Netherlands 202, 1634
in Pakistan 2038
in UK 5699, 6508
in USA 3540, 4071
in USSR 1554
in Zimbabwe 3049, 6547 collaris) in Australia 1497 parasitising, *Plutella xylostella*, in New South Wales 1497 Thyreocoridae, in Quebec 5408
Thyrididae, in Arunachal Pradesh 2756 Elasmopalpus lignosellus of 1387 Timaspis papaveris (see Aylax papaveris) in Zimbabwe 3049, 6547 on Capsicum, in Netherlands Thyridopteryx ephemeraeformis in USA 789 on Capsicum annuum, in Netherlands 1634 Anobiidae in, in Israel 2087 on Juniperus, in Ohio 789 on Pinus strobus, in Ohio 789 arthropod pests of, in Tasmania 5416 insect pests of, imported into New South
Wales 1606 on Citrus, wind damage attributed to 5078 parasitised by, Hymenoptera, in Ohio Isoptera in, in Nigeria 5486
Tinda (see Watermelon)
Tinea fictrix
in Nigeria 2088 on cotton 789 damage caused by 4071, 5127
effects of fertilizers on 3038
in Pakistan 2038
varietal preferences of 3819
on cucumber, in UK 6508
on eggplant, in Netherlands
on leek, damage caused by 5699
on onion population dynamics of 789 preyed on by, birds, in Ohio 789 Thyrsocnema dasguptai (see Sarcophaga in Sri Lanka 2089
in coconut fibre, in Sri Lanka 2089
in maize grain, in Nigeria 2088
male genitalia in 2089
taxonomy of, *Tinea nucivora* as synonym
of 2088 dasgaptai)

Thysanoplusia intermixta
development in, effects of temperature on
1252 in Japan 1252 seasonal abundance of 1252 on onion in Rajasthan 5697 in Zimbabwe 6547 seasonal abundance of 1232

Thysanoplusia orichalcea

control of, insecticides for 2475, 2487
in India 2475, 2487
on Brassica juncea, in Delhi 2475
on soyabean, in Madhya Pradesh 2487 Tinea granella (see Nemapogon granellus) Tinea metonella (see T. translucens) varietal preferences of 3540 on soyabean, in Egypt 1013 Tinea murariella on tobacco in Moldavia 1554 in Zimbabwe 3049 in UK 4113 in carpets, in England 4113 Thysanoptera taxonomy of control of, insecticides for 2462, 4383 characters distinguishing T. pellionella Amblyseius spp., in Netherlands 20 Anthocoridae, in India 5468 Orius minutus, in Netherlands 202 gall-forming 4946 galls of 4946 and 4113 characters distinguishing T. translucen in Georgia (USA) 2267 and 4113

Tinea nucivora, taxonomy of, synonym of T.	Tobacco contd.	Tomato (Lycopersicon esculentum)
fictrix 2088 Finea pellionella	Manduca quinquemaculata on, in Virginia 4609	Aculops lycopersici on, damage caused by 4596
larvae of, water vapour uptake by 4792	M. sexta on 726	Bemisia tabaci on
taxonomy of, characters distinguishing T. murariella and 4113	in North Carolina 497	in Jordan 5703
water relations of, role of larval case in	in Virginia 4609, 4934 mortality of 3562	in Sudan 4341 in Uttar Pradesh 471
1238	varietal preferences of 5729	dimethoate in, residues of 4396
finea translucens, taxonomy of, characters distinguishing T. murariella and 4113	Myzus persicae on effects of tobacco mosaic virus on	Epitrix spp. on, in Georgia (USA) 3541 E. hirtipennis on, in Tahiti 1833
ineidae	4749	fenitrothion in, residues of 5702
in North America 15 in USSR 141	in Andhra Pradesh 6574 in Bulgaria 1462	Frankliniella occidentalis on, damage caused by 1483
ineiformis, Coniopteryx	in Japan 4733	Glischrochilus quadrisignatus on, rearing
ineoidea, food preferences in, evolution of 5434	in North Carolina 3560 in Virginia 4609	of 3792 Gortyna flavago on 993
ineola bisselliella	in Zimbabwe 3049	Heliothis armigera on
control of, insecticides for 2158 in wool textiles 2158	Nesidiocoris tenuis on in Gujarat 6573	in India 3418 in New Zealand 5889
ingidae	in Karnataka 1555	in Senegal 6550
in Colombia 6131 in North Carolina 573	pest control on 4077 biological 6001	in Tadzhikistan 5714 H. zea on
intitaco, Sibinia	role of tobacco-free period in 3049	artificial infestation with 2030
liodus, taxonomy of 16 liphia berbereti	Rhopalosiphum maidis on, in North Carolina 3560	assessing infestations of 4051 damage caused by 2030
biology of 1939	Scarabaeidae on, in Zambia 1052	in California 5894
descriptions of 1939 parasitising, <i>Phyllophaga anxia</i> 1939	Spodoptera litura on in Andhra Pradesh 6574	plant alkaloids poisoning parasites of 1030
Vipula control of, insecticides for 864	in Karnataka 3050 Tenebrionidae on, in Zambia 1052	insect pests of
on grain crops, in Scotland 864	Tetranychus urticae on, development of	defence mechanisms against 4144 in Assam 4142
on grasses, in Scotland 864	5102 Theirs tabasi on in Zimbahwa 2010	in Cyprus 1761
on pasture plants, in UK 5575 on turnip, in Scotland 864	Thrips tabaci on, in Zimbabwe 3049 tomato spotted wilt virus in, in Moldavia	in Egypt 2500 in Quebec 269
ipula aino in Japan 1411	virus control in, vector control for 3560	resistance to 5115 insecticides in, toxicity of 3541
on rice, damage caused by 1411	Tobacco factories, insect pests in, in USSR	Keiferia lycopersicella on
<i>lipula</i> iridescent virus, immune serum to 3163	1607 Tobacco leaf curl virus	assessing infestations of 4051 in California 2501, 5704
ipula paludosa	control of 4341	in Florida 1029
Entomophthora caroliniana in, in Switzerland 5237	vector control for 471	Leptinotarsa decemlineata on damage caused by 6551
E. gigantea in, in Switzerland 5237	Bemisia tabaci, transmission of 471,	effects of tobacco mosaic virus on
in Switzerland 5237 in UK 5044	2500, 4341, 6572 tomato	4898 in Georgia (USA) 3541
ipula sacra	in Egypt 2500	leptophos in, removing residues of 6721
biology of 6118 in Canada 6118	in Sudan 4341 in Uttar Pradesh 471	Liriomyza bryoniae on in Belgium 221
in abandoned beaver ponds, in Alberta	Tobacco mosaic virus	in Netherlands 3807, 3808
6118 ipulidae	tobacco, effects on Myzus persicae of	L. sativae on in Florida 473
control of 5044	4749	in Ohio 229
in Minnesota 2763 in UK 5044	tomato, favouring Leptinotarsa decemlineata 4898	L. syngenesiae on, in Netherlands 220 L. trifolii on, in Kenya 5415
puliformis, Synanthedon	Tobacco plantations	Neoleucinodes elegantalis on, damage
ro, Hypomicrogaster ischeria ekebladella	Carabidae in, effects of insecticides on 6261	caused by 472 Nesidiocoris tenuis on, in Gujarat 6573
biology of 534	Chrysopa perla in, in Bulgaria 4987	Otiorhynchus cribricollis on, in Italy 992
in Netherlands 534 on <i>Quercus</i> , in Netherlands 534	predatory insects in, effects of insecticides on 4609, 4934	parathion-methyl in, residues of 5702 pest control on 5496
parasitised by	Tobacco (stored)	biological 6691
Chrysocharis nautius, in Netherlands 534	Lasioderma serricorne in, in West Germany 3106	effects of temperature on 4578 insecticides for 1695, 1870
Colastes braconius, in Netherlands 534	pest control in 4077 insect growth regulators for 3664	phosalone in, residues of 5702 phoxim in, residues of 4396
tanus, Scaphoideus tillator, Monochamus	low temperatures for 3662	quinalphos in, residues of 5702
metothrips subapterus in USA 5504	Tobacco vein mottling virus control of, vector control for 3560	Spodoptera frugiperda on, in Ontario 5265
on Stellaria graminea, in USA 5504	in, tobacco, in North Carolina 3560	Tetranychus evansi on, development of
oad, preying on, Surattha indentella, in Kansas 1943	TOCP (see Phosphoric acid, tris(2-methylphenyl) ester)	infestation with 5701 T. urticae on
oadflax, Dalmatian (see Linaria dalmatica)	todomatsui, Adelges (Dreyfusia)	in Austria 1756
obacco (Nicotiana tabacum) Aphis spp. on, in North Carolina 3560	todomatsui, Dreyfusia (see Adelges todomatsui)	in Belgium 221 in Scotland 4050
arthropod pests of, in Canada 2792	Togo	tobacco leaf curl virus in
Bemisia tabaci on, in Zimbabwe 3049 Frankliniella schultzei on, in Zimbabwe	plant protection in 3238 yam in, insect pests of 3029	in Sudan 4341 in Uttar Pradesh 471
3049	togoensis, Trinervitermes	tomato yellow leaf curl virus in, in Jordan 5703
Heliothis armigera on, distribution pattern of 3051	tokgaevi, Psyllaephagus Tokuthion (see Prothiofos)	Trialeurodes vaporariorum on
H. punctigera on, distribution pattern of	Tomaspidinae, in South America 16 Tomaspis flavopicta	development of 196, 197, 198, 6117 feeding preferences of 195
3051 H. virescens on	enzymes in 5353	in Austria 5734
damage caused by 3561, 4076	wing-pattern polymorphism in 5353 Tomaspis insignita	in Belgium 221 in Italy 5585
enzymes in 1214 in North Carolina 2041	biology of 5086	in Japan 6552
insect-borne viruses in, in Zimbabwe 3049	in Costa Rica 5086 on banana, in Costa Rica 5086	in Netherlands 193, 194 in Ohio 229
insect pests of	on Heliconia, in Costa Rica 5086	in Scotland 4049
in Moldavia 1554 in Zimbabwe 4077	Tomatine, Empoasca fabae feeding responses to 1528	in Sweden 3764, 5645 parasitism of 199, 3808
insecticides in, residues of 5728	α-Tomatine, in tomato, poisoning parasites	2-tridecanone in, insecticidal activity of
lindane in, residues of 6723	of Heliothis zea 1030	5115

Tomato bronze leaf virus (see Tomato	Tortricidae contd.	Toxaphene contd.
spotted wilt virus)	on apple	with carbaryl, against, Spodoptera
Tomato fields, parasitic insects in, effects of insecticides on 473	in Bulgaria 1454 in Poland 3476, 3477, 3478	littoralis 225 with DDT, against, Spodoptera litura
Tomato leaf curl disease (Egypt), caused by	on Betula, in West Germany 1575, 1576	1154
tobacco leaf curl virus 2500	on hardwood forest trees, dietary	with DDT, and parathion-methyl
Tomato leaf curl disease (India), caused by	preferences of 4932	against, Earias insulana, on cotton
tobacco leaf curl virus 471	on street trees, in Ukraine 5183	4384
Tomato spotted wilt virus	pheromones in, receptors for 1726	in cotton fields, non-target effects of
hosts of 2020	rearing of, diets for 1850	4384
in	sex pheromones of 1731	with endrin, against, Spodoptera littoralis
Frankliniella fusca, transmission of	Tortricinae, sex pheromones of 1731	225
1625	Tortricoidea	with methomyl, against, Spodoptera littoralis 225
groundnut, symptoms of 2020	food preferences in, evolution of 5434	with naled, in cotton fields, effects on
Scirtothrips dorsalis, transmission of 2020	in Denmark 3306 Tortrix capensana	predatory insects of 480
Thrips tabaci, tranmission of 1554	in South Africa 2973	with parathion-methyl
tobacco, in Moldavia 1554	on orange, damage caused by 2973	against
Tomato (stored fruit), pest control in,	Tortrix viridana	Heliothis spp., on cotton, 3552
fumigants for 1615	attractants for 2582, 3235	Spodoptera exigua, on cotton 3552 Toxares deltiger
Tomato yellow leaf curl virus	control of	hosts of 4979
control of, vector control for 5703	biological 1336, 2616, 6628	in India 4979
in	insecticide-pathogen mixtures for 6628	Toxins
Bemisia tabaci, transmission of 2500,	insecticides for 6628	Bacillus thuringiensis 3250, 4807
5703	in Czechoslovakia 3235, 6628	Beauveria bassiana 2652
tomato	in UK 3071 in USSR 5183	Entomophthora virulenta 2652 Fusarium 2652
in Egypt 2500 in Jordan 5703	in West Germany 1336, 1588, 2582	Toxobacterin (see Bacillus thuringiensis)
tomentosicollis, Acanthomia (see Clavigralla	on Quercus	Toxoptera, on Lantana camara, in Uttar
tomentosicollis)	in Czechoslovakia 6628	Pradesh 2853
tomentosicollis, Clavigralla (Acanthomia)	in West Germany 1336, 1588	Toxoptera aurantii
tomentosus, Byturus	on Quercus robur, in England 3071	citrus tristeza virus in, transmission of
Tomicus minor	on street trees, in Ukraine 5183	2103, 2978
biology of 1565 control of, cultural 1565	parasitised by, <i>Ischnus inquisitorius</i> , in England 3071	hyperparasites of, in Greece 6302 in Greece 6302
in Finland 4101, 4102	preyed on by, Formica rufa, in West	in India 401
in Sweden 1565, 5149	Germany 1336	in Italy 3492
in pine wood, in Finland 4102	tortuosa, Zygogramma	on Citrus
on Pinus sylvestris	Torulopsis, in, cheese, preventing mite	in Greece 6302
damage caused by 1565	infestation 3116	in India 401
feeding by 5149	Torymidae, in Trinidad 2768 Torymus	in Italy 3492
Tomicus piniperda behavioural responses to food-plant	in Trinidad 2768	parasites of, in Greece 6302 parasitised by, <i>Lysiphlebus testaceipes</i> , in
stimuli in 3805	parasitising, Dryocosmus kuriphilus, in	Italy 3492
biology of 1565	Kyushu 3572	Toxoptera citricida
Coleoptera associated with, in Poland	Torymus beneficus	citrus tristeza virus in, transmission of
2074	sp. nov., description of 5736	2103, 2978
control of, cultural 1565	in Japan 5736	control of
in Finland 4101, 4102 in Poland 2074	parasitising, <i>Dryocosmus kuriphilus</i> , in Japan 5736	insecticides for 4004, 5624, 5627 integrated 5949
in Sweden 1565, 5149	Torymus geranii	EPPO data sheet on 3189
in UK 6602	distribution of 5736	in Australia 5949
in USSR 5397	hosts of 5736	in Brazil 4004
in pine wood, in Finland 4102	in Japan 5736	in India 401
on Pinus	parasitising, Dryocosmus kuriphilus, in	in Israel 2103
in Poland 2074 relation of <i>Gremmeniella abietina</i> and	Japan 5736	in Japan 5082
6602	Torymus koebelei competing with	in Togo 3029 on Citrus
on Pinus sylvestris	Platygaster spp. 833	in Brazil 4004
damage caused by 1565	Zatropis capitis 833	in India 401
feeding by 5149	in USA 833	in Israel 2103
parasites of, in Lithuania 5397	parasitising, Rhopalomyia californica, in	in Japan 5082
preyed on by, Rhizophagus depressus, in	California 833	on yam, in Togo 3029
Poland 2074 Tomosvaryella oryzaetora	Toumeyella parvicornis in USA 1086	overwintering in 5082 predators of, effects of insecticides on
in Malaysia 2651, 5546	on Pinus elliottii, damage caused by	4004
parasitising	1086	preyed on by
Nephotettix spp., in West Malaysia	tended by, Solenopsis invicta, in Florida	Chrysopa spp., in Brazil 4004
5546	1086	Cycloneda sanguinea, in Brazil 4004
pests of rice, in Sarawak 2651 Tomosvaryella subvirescens	Toxaphene (chlorinated camphenes containing 67 to 69% chlorine)	yam mosaic virus in, transmission of 3028
in Malaysia 5546	against	yam viruses in, transmission of 3029
parasitising, Nephotettix spp., in West	Agraulis vanillae, on passion fruit 407	Toya, in Vietnam 803
Malaysia 5546	Amrasca biguttula, on cotton 5719	Toya propingua
Tonga	Atta bisphaerica 189	in USSR 2346
biological control in 4696	Carpomyia vesuviana 6477	on lucerne, in Turkestan 2346
Scolytidae in 4724 Toona ciliata (wood), Microcerotermes	Chalcodermus aeneus, on Vigna unguiculata 5105	on maize, in Turkestan 2346 Trabala vishnou
beesoni in, feeding by 2572	Coptotermes formosanus, in pine wood	development in 1819
topiaria, Chrysoteuchia	5487	food-plants of 1819
Torak (see Dialifos)	Drosophila melanogaster 2636	Trachea anguliplaga
Torbidan (see DDT, with parathion-methyl,	Heterotermes indicola, in pine wood	in Brazil 1908
and toxaphene)	5487	on Rumex obtusifolius, in Brazil 1908
torii, Sacciphantes	in cotton	parasitised by
Torque (see Fenbutatin oxide) Torres Strait Islands, Tettigoniidae in 1841	effects of rain on 5719 effects on persistence of parathion-	Carinodes spp., in Brazil 1908 Patelloa similis, in Brazil 1908
torridus, Mirperus	methyl of 648	trachypterus, Chrotogonus
Tortricidae	in Drosophila melanogaster, effects of	trachypygus, Dyscinetus (see D. morator)
attractants for 3236	application site on susceptibility to	Tractor trailers, insect control in,
flight activity in 3771	2636	insecticides for 3126
in British Isles, book 3789	in pine wood, persistence of 5487	Trail pheromones
in Maritime Territory 161	in Salmonella, mutagenicity of 1160	Atta cephalotes 1335

Trail pheromones contd.	Trap, flight-barrier, for, Xyloterus lineatus	Trap, sex-attractant contd.
Elasmucha grisea 2058	4629	for contd.
Iridomyrmex humilis 2803	Trap, Leggett	Plutella xylostella 1135, 6107
Oecophylla smaragdina 2327	efficiency of 2037	Podosesia syringae 565
Reticulitermes flavipes 5488	for, Anthonomus grandis 482, 2037	Prays citri 1779
R. virginicus 5488	Trap, live, for, Dendroctonus frontalis	P. oleae 984, 1779
Tramini, taxonomy of, chromosomes as	2578	Prionoxystus robiniae 1569, 6202
characters for 3728	Trap, Malaise	Pseudococcus calceolariae 5633
Tranosema rostrale	for	P. comstocki 1298, 6105
in Poland 3592	Carabidae 5198	Pseudoplusia includens 2623
parasitising, Orgyia antiqua, in Poland	Coleoptera 4875	Rhyacionia subtropica 4618
3592	Trap, mating-station, for, Sapyga pumila	Spodoptera exempta 5918
Transaminase, alanine-glutamic (see	1952	S. frugiperda 3886, 4505
Aminotransferase, alanine) Fransaminase, aspartic-glutamic (see	Trap, McPhail, for, Anastrepha ludens 1666	S. littoralis 1742, 4326
Aminotransferase, aspartate)	Trap, Nadel, for, Ceratitis capitata 5377	S. litura 1300 S. triturata 1749
Fransferase, glutathione S-, in Heliothis	Trap, net, for, Nilaparvata lugens 2386	Synanthedon exitiosa 395, 3485
virescens larvae, role in parathion-methyl	Trap, night-station, for, Sapyga pumila	S. pictipes 1461, 3484, 3485
resistance of 6087	1952	S. rileyana 3484
transgressus, Scambus	Trap, oil, for, Pectinophora gossypiella	Tortrix viridana 2582, 3235
ransitella, Amyelois (Paramyelois)	4070	Trichoplusia ni 5646
transitella, Paramyelois (see Amyelois transitella)	Trap, pheromone for	Trogoderma granarium 6180
translucens, Orthotylus (see Diaphnocoris	Dendroctonus ponderosae 6590	Zeiraphera diniana 3585
provancheri)	Ips typographus 6589	insect control using 4007 mass-production of pheromone dispensers
translucens, Tinea	Trap, pitfall	for 3989
Franspermethrin ((3-phenoxyphenyl)methyl	for	monitoring of insect populations with
(1RS-trans)-3-(2,2-dichloroethenyl)-2,2-	Araneae 299	5590
dimethylcyclopropanecarboxylate)	Carabidae 136, 1394, 4874, 5198	Trap, Sharma, for, Pectinophora gossypiella
in Periplaneta americana	coprophagous insects 3794	1038, 4070
metabolism of 1691	Elasmopalpus lignosellus 463	Trap, Steiner, for, Ceratitis capitata 3700,
penetration of 1691	necrophagous insects 3794	3722
in Spodoptera littoralis	Staphylinidae 295	Trap, sticky
metabolism of 1691	Trap-plants, for, Diparopsis castanea 2160	for
penetration of 1691 Transpiration	Trap, sex-attractant for	Anthonomus grandis 482 beneficial insects 379
in almond, effects of Tetranychus	Acleris gloverana 3575	Cnephasia pasiuana 5026
pacificus on 3992	Acrolepiopsis assectella 3030, 6548	Coleoptera 4875
in strawberry, effects of Tetranychus	Adoxophyes spp. 6584	Dendroctonus brevicomis 2580
urticae on 2426	A. orana 4701	D. pseudotsugae 2596
Transplanting, of rice, effects on Orseolia	Anarsia lineatella 1986, 3235	Lygus lineolaris 1453
oryzae of 6420	Anthonomus grandis 481, 2530	Moritziella castaneivora 1602
ransversa, Chlumetia	Aonidiella aurantii 5638	Rhagoletis 377
transversalis, Coccinella (see C. repanda) transversalis, Coccinella repanda (see C.	Apamea devastatrix 1135 Archips podanus 3235	R. pomonella 2441 Sitona lineatus 4582
repanda)	A. xylosteanus 3235	Spodoptera frugiperda 4505
ransversoguttata, Coccinella	Cheloderus childreni 1073	Trap, sticky board
ransversus, Gastrimargus	Chilo suppressalis 894	for
ransversus, Pseudocatolaccus	Choristoneura fumiferana 3582	Carabidae 5198
Ггар	C. occidentalis 3575	Oulema melanopus 6263
for	Cnephasia stephensiana 3235	Trap, sticky screen cylinder, for,
Anthonomus grandis 482	Conopia myopaeformis 3806	Dendroctonus ponderosae 6590
Cerambycidae 1102 Dacus dorsalis 934	Cryptophlebia leucotreta 6444 Cydia funebrana 1983, 2967, 3235	Trap, sticky suction, for, adult parasitoids 3056
D. oleae 1476	C. molesta 394, 2967, 3235, 5073,	Trap, suction
Hylobius pales 1590	5613, 5616	for
Hylurgopinus rufipes 6207	C. nigricana 2652	aphids 2875, 3530
pests of stored products 1741	C. pomonella 390, 968, 1450, 2435,	Ēphestia cautella 3678
Rhagoletis pomonella 389	2953, 2956	Ephydridae 782
Scolytus multistriatus 521, 6207	Diabrotica virgifera 6247	Hylobius abietis 4619
Tephritidae, height as affecting catches	Diatraea saccharalis 5516	insects 634 Nilaparvata lugens 1403
in 3701 Trogoderma granarium 6180	Diprion pini 3581 Discestra trifolii 3235	Sciaridae 782
Vespula squamosa 2252	Enarmonia formosana 3235	time-sorting device for 1849
Frap, bait	Ephestia cautella 4671	Trap, Tetra, for, Eupoecilia ambiguella
for	E. elutella 4118, 4671	3989
Anastrepha ludens 2305	Eupoecilia ambiguella 3988, 3989,	Trap trees
Carpophilus 3999	5590	for
Ceratitis capitata 5595, 6480	Heliothis 2531	Ips typographus 2563 Scolytidae 2062
Conopia myopaeformis 1980 Cydia molesta 5616	H. armigera 4145 H. virescens 3323, 4073	Scolytus multistriatus 4924
pests of stored products 1607	H. zea 2898	Trap, tub, for, Trichodes ornatus 354
Frap-band, for, Drosicha mangiferae 1481,	Holopterus chilensis 1073	Trap, vehicle-mounted
5626	Homoeosoma electellum 2206	description of 1317
Trap, cone, for, Heliothis virescens 4073	insects 634	for, Ceratopogonidae 1317
Frap crops	Keiferia lycopersicella 1029, 5704	Trap, violet water, for, Oscinella frit 2774
for, Anthonomus grandis 4602	Lambdina fiscellaria 3575	Trap, water pan, for, Phthorimaea
use in integrated control of 4949 Trap, cylinder, for, Xyloterus lineatus	Lobesia botrana 5590 Lymantria dispar 6608	operculella 1021 Trap, window
4621, 4629	L. monacha 4637	for
Trap, Delta	Malacosoma disstria 3575	Coleoptera 4875
for	Mamestra brassicae 2998, 3235	Scolytidae 2062
Ceratitis capitata 3722	M. configurata 2125	Trap, yellow, for, Aleurocanthus woglumi
Keiferia lycopersicella 5704	Nematus ribesii 6060	1988
Pectinophora gossypiella 4070	Neodiprion sertifer 3581	Trap, yellow sticky
Frap, drainpipe, for, Dendroctonus	Nepytia freemani 3575	description of 5425 for
ponderosae 6590	Oidaematophorus monodactylus 5275 Panolis flammea 2582	Aleurocanthus woglumi 980, 1987
Frap, drop, for, Empoasca fabae 2413 Frap, electric grid	Pectinophora gossypiella 495, 1038,	aphids 1020
for	2529, 3043, 4070, 4072, 6560	Bemisia tabaci 5425
Heliothis virescens 2531	pests of stored products 1741, 3629	Empoasca 2972
Spodoptera frugiperda 4505	Phthorimaea operculella 1021, 1605	Rhagoletis cerasi 2446
Trap, emergence, for, Empoasca fabae 2413	Plodia interpunctella 4671	Trialeurodes vaporariorum 5425

Trap, yellow water for	Trialeurodes vaporariorum contd. insecticide resistance in, detecting and	Triazophos contd. against contd.
aphids 3530	measuring of 3715	Nilaparvata lugens, on rice 3395
Empoasca kraemeri 1009	insecticide susceptibility in, determining of	Polyphagotarsonemus latus, on
Nilaparvata lugens 1403, 2386	5267	Phaseolus vulgaris 1008
Trap, Zoecon 1C, for, Keiferia lycopersicella	life tables for 3292, 6552	Scirtothrips aurantii, on Citrus 2974,
5704	on Capsicum annuum, development of	5080
trapezalis, Marasmia	196, 197, 198	Spodoptera littoralis, on cotton 487
Trathala flavoorbitalis in India 906	on cucumber assessing infestations of 5661	stem borers, on rice 3968 Tetranychus lombardini, on banana
in Japan 1409	development of 196, 197, 198, 5661	988, 2982
in rice-fields, in West Bengal 906	distribution pattern of 424, 5661	in orange, residues of 5080
parasitising, Cnaphalocrocis medinalis, in	in Ohio 229	in Vicia faba
Kyushu 1409	in Sweden 5645	toxicity of 2008
in USA 5609	in UK 6508 on eggplant	translocation of 2008 photodegradation of 4395
in pear orchards, in Oregon 5609	development of 196, 197, 198	resistance to, in, Tetranychus
Trechnites psyllae	in Netherlands 193	cinnabarinus, development of 6717
in Canada 5074	on Gerbera jamesonii, development of	temperature as affecting 4395
parasitising, Psylla pyricola, in Ontario	197	with azinphos-ethyl, against,
5074 Trechus	on gherkin, development of 197 on melon, development of 197	Polyphagotarsonemus latus, on cotton 1544
in Canary Islands 1307	on mustard, development of 6117	with endosulfan, antagonistic 487
on sugar-beet, in Belgium 6533	on ornamental plants	with fonofos, against,
tredecassini, Magicicada	in Ohio 229	Polyphagotarsonemus latus, on cotton
tredecim, Magicicada	in Sweden 5733, 5734	1544
tredecimpunctata, Hippodamia tredecula, Magicicada	on Solidago altissima, development of 3292	with methomyl, antagonistic 487 with oil emulsion, against, <i>Dendroctonus</i>
Tree-trunk pests, predators of, in USSR	on strawberry, in Italy 5585	micans, on Picea 1604
580	on tomato	Tribolium
Trees	development of 196, 197, 198, 6117	control of 3119
arthropods on, sampling of 1852	in Belgium 221	evaluating of 5424
Kalotermes flavicollis on, in Caucasus 118	in Japan 6552 in Netherlands 193, 194	fumigants for 584 insecticides for 4401
mites on, in Nigeria 6269	in Ohio 229	cuticle in, hydrocarbons in 4790
pest control on, in exotic regions 5178	in Scotland 4049	in bakery products, damage caused by
Trehalase	in Sweden 3764, 5645, 5734	3119
in Bombyx mori cocoon, properties of	parasites of	in stored groundnuts, in Nigeria 6647 Tribolium castaneum
4756 in Bombyx mori ovaries, role in trehalose	effects of food-plant on 199, 3808 effects of insecticides on 201, 3807	aggregation pheromone in 1223
absorption of 4768	effects of temperature on 3808, 5734	Aspergillus flavus in, transmission of
in Chilo suppressalis, activity during	in Japan 6552	4655
diapause of 3384	parasitised by, Encarsia spp., in Kyushu	black mutant of 3125
in <i>Drosophila melanogaster</i> , properties of 735	3292 population dynamics of 424, 6117	bromomethane susceptibility in, determining of 4658
in Drosophila simulans, properties of	predators of, in Japan 6552	control of 593
735	preyed on by	antifeedants for 3878
in Tenebrio molitor, effects of diet on	Chrysopa perla 4987	beta-irradiation for 3648
2686	Coccinella septempunctata, in Kyushu	fumigants for 3114, 3667, 4127, 4658,
tremblayi, Bactericera Tremex columba, parasitised by, Megarhyssa	3292 Propylea japonica, in Kyushu 3292	4665, 6640, 6646, 6659 inert dusts for 2598, 6176
spp., in North America 4646	rearing of, techniques for 628	insecticides for 1112, 1608, 2093,
trepanatus, Treptoplatypus	traps for 5425	2094, 2638, 3130, 3220, 3635, 3655,
Treptoplatypus trepanatus	triangularis, Hydrophilus	3659, 3679, 3878, 4151, 5258, 5262,
in Indonesia 4098 in Gonystylus bancanus wood, in West	triangularis, Hydrous triangulifera, Hyalomyodes	5810, 5822, 6654 γ-irradiation for 1241, 3124
Kalimantan 4098	triangulus, Philanthus	ozone for 3631
Trialeurodes	Triaspis thoracicus	protective atmospheres for 1116, 3646
on cassava, in Colombia 1025	biology of 3524	resistant packing containers for 2606
on Phaseolus, in Mexico 2301	host food-plants as affecting 3524	sterile-insect release for 5221
Trialeurodes vaporariorum aggregation indices for 3764	in France 5667 in USSR 3524	temperature control for 3669
biology of 1133	parasitising	development in, genotype-environment interactions as affecting 1117
control of	Bruchus lentis, in France 5667	energetics of 3619
biological 193, 194, 195, 199, 229,	B. pisorum, in USSR 3524	fenitrothion susceptibility in, relation of
628, 1133, 1536, 3764, 3808, 4049,	triatomaea, Rhynchopacha (see Athrips	weight and 5822
5267, 5585, 5645, 5662, 5734, 5925, 5948, 6320	rancidella) 1,3,5,2,4,6-Triazatriphosphorine, 2,2,4,4,6,6-	in Bulgaria 3130 in Egypt 2607
growth regulators for 5645	hexakis(1-aziridinyl)-2,2,4,4,6,6-	in India 4655, 6640
insecticides for 220, 221, 1870, 5733,	hexahydro- (see Apholate)	in Japan 4293
5734	1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-	in Mali 4665
evaluating of 3699	N'-(1-methylethyl)- (see Atrazine)	in Nigeria 3650, 3651, 4663, 6645, 6646 in Swaziland 4662
threshold for 5585 dimethoate resistance in, in Bulgaria	1,3,5-Triazine-2,4-diamine, N-(1,2-dimethylpropyl)-N'-ethyl-6-(methylthio)-	in UK 4660
5267	(see Dimethametryn)	in USA 1608, 3679, 6170
flight muscles in, contraction frequency of	1H-1,2,4-Triazole, 1-(tricyclohexylstannyl)-	in cacao beans, in Nigeria 6645, 6646
53	(see Azocyclotin)	in dried medicinal plants, in Egypt 2607
food-plants of	Triazophos (O,O-diethyl O-(1-phenyl-1H-	in dried red peppers, in India 4655
assessing suitability of 196 selecting of 195	1,2,4-triazol-3-yl) phosphorothioate) against	in maize flour, development of 6098 in maize grain
in Australia 5948	Aceria sheldoni, on Citrus 5080	damage caused by 4663
in Austria 5734	Aonidiella aurantii, on Citrus 5080	in Minnesota 6170
in Belgium 221	Bemisia tabaci, on tomato 5703	in Nigeria 3650
in Bulgaria 5267	Brevipalpus pulcher, on apple 953	in oil-palm kernels, in Nigeria 6645
in Irish Republic 5925 in Italy 5585	Chilo suppressalis 1148 Cnaphalocrocis medinalis, on rice	in packaging materials, damage caused by 4678
in Japan 424, 1133, 3292, 5661, 6552	3942	in rice grain, effects of glazing on 593
in Netherlands 193, 194, 220, 3808,	Cydia pomonella 6695	in soyabean protein, development of
3829, 6320 in Poland, 4850	Delia brassicae, on radish 421	6098
in Poland 4859 in Sweden 3764, 5645, 5733	Eutetranychus orientalis, on Citrus	in spices, in Egypt 2607
in UK 4049, 6508	2450 Hercinothrips bicinctus, on banana	in stored groundnuts, in Kansas 3679 in sunflower seeds, interactions with other
in USA 229	988, 2982	pests of 3681

in USA 1910

Tribolium castaneum contd.	Tribulus terrestris contd.	Trichlorphon contd.
in wheat flour	Microlarinus contd.	in citrus groves, exposure of agricultural
development of 6098	M. lypriformis on	workers to 4160
tunnelling by 5823	and biological control using	in Coccinella septempunctata, toxicity of
in wheat grain resistance to 5818	in California 855 in USA 1910	1712 in lemon, residues of 4160
varietal preferences of 3671	triceratops, Onthophagus	in Lymantria dispar, not affecting
in wheat products, extracting of 3668	Trichiinae, flight activity in, relation of	parasites 4926
in yam chips, in Nigeria 3651	coloration and 2184	in orange, residues of 4160
interactions with T. confusum of 3619	Trichionotus flexorius (see Agrypon	in potato, persistence of 5692
life-span in, not affected by γ-irradiated	flexorium)	in sunflower, toxicity of 6700
diet 1108	Trichiosoma lucorum	on Pseudotsuga menziesii, effects of rain on 2072
lindane resistance in, in India 6640 malathion in, toxicity of 3223	biology of 6605 in USSR 6605	resistance to, in
malathion resistance in	on Betula, in USSR 6605	Musca domestica
artificial selection for 671	Trichlorfon (see Trichlorphon)	mechanisms of 1812
in India 6640	Trichloronate (O-ethyl O-(2,4,5-	selection for 1812 with Bacillus thuringiensis, against,
in North Carolina 1608	trichlorophenyl) ethylphosphonothioate)	Orgyia gonostigma, on fruit trees
malathion susceptibility in, artificial	against	3464
selection for 671 Nosema whitei in, infectivity of 1631	Agriotes spp., on potato 1022	with carbaryl, against, Spodoptera cilium,
oviposition in 3763	Capnodis tenebrionis, on cherry 3996 Delia brassicae	on Cynodon 3444
phosphine in, uptake of 6659	on brussels sprouts 216	with fertilizers 6694 with fungicides 3021, 3022
phosphine resistance in 3667	on cauliflower 5656	with herbicides 2867
in India 6640	Syringopais temperatella, on grain crops	esters with fatty acids, against, Solenopsis
predation by 3681	1389	invicta 3838
preyed on by	Trichlorphon (dimethyl (2,2,2-trichloro-1-	Trichoderma
Chrysopa rufilabris 4245	hydroxyethyl)phosphonate) against	in Nezara viridula, transmission of 4342
Xylocoris flavipes 2099	Acantholyda pinivora, on Pinus 5766	orange, in Egypt 4342
pupal weight in effects of laboratory rearing on 4817	Achaea janata, on castor 3033	Trichoderma lignorum (see T. viride)
variation under domestication of 2604	Acrocercops phaeospora, on Eugenia	Trichoderma viride, in, Gelechia
reproduction in	jambolana 2459	hippophaella, in Buryatia 1322
effects of y-irradiation on 5806	Aelia rostrata, on grain crops 3366 Amrasca devastans, on okra 1492	Trichodes ornatus attractants for 354
effects of vacuum on 5806	Amsacta albistriga, on groundnut	in USA 354
selected lines of, performance of crosses of	6527	preying on, Megachile rotundata, in
5349	Anthonomus pomorum, on apple 6465	Washington 354
selection processes in, genetic markers for studying 2601	A. signatus, on strawberry 364	traps for 354
sperm precedence in 3768	Apamea sordens, on wheat 296 Aphis gossypii, on okra 1492	Trichodesmine, in Crotalaria, uptake by Arctiidae of 5450
sterilisation of, y-irradiation for 1241	Artogeia rapae 5839	Trichogramma
tricalcium phosphate in, effects on	Austroasca alfalfae, on lucerne 3447	attraction of, to host kairomones 3318
cuticular hydrocarbons of 6176	A. viridigrisea, on lucerne 3447	biological control using 1646, 2119, 2620
Tribolium confusum	Chilo partellus, on maize 2365	dispersal of 1669
Adelina tribolii in, effects of 1618 aggregation pheromone in 1223	Choristoneura occidentalis, on Pseudotsuga 3707	emergence in, effects of humidity on 1648
Aspergillus flavus in, transmission of	Cydia pomonella, on apple 2945	in Ghana, introductions of 4497
4655	Dacus cucurbitae 1500	in rice-fields, in Thailand 2370
avermectins in, toxicity of 644	Dichocrocis punctiferalis, on mulberry	intersexuality in 1657
control of 593	378	parasitising
fumigants for 3636 growth regulators for 590, 2092, 4713,	Dinoderus japonicus, in bamboo canes 860	Agrotis segetum, and biological control using, in Ukraine 5249
5808	Diprionidae, on Pinus 5741	Alabama spp., and biological control
insecticides for 595, 3126, 3219, 3679,	Earias spp., on okra 1492	using, in Colombia 5125
3797, 4398, 5824	Epilachna chrysomelina, on cucurbits	Anarsia lineatella, and biological
ozone for 3631	6507	control using, in Romania 5615 Arachnis spp. 1650
resistant packing containers for 2606 energetics of 3619	Eupoecilia ambiguella, on grapevine 5589	Artipus floridanus 6484
enzymes in 1618	Eurygaster integriceps, on wheat 872,	Chilo auricilius, and biological control
in Egypt 2607	6694	using, in Orissa 4515
in India 4655, 5807	Gryllotalpa spp., on tobacco 1554	Cydia molesta, and biological control
in USA 3679	Leptinotarsa decemlineata, on potato	using, in Romania 5615
in dried medicinal plants, in Egypt 2607 in dried red peppers, in India 4655	1526, 3021, 3022, 3532, 5692 <i>Lobesia botrana</i> , on grapevine 5589	Diaprepes abbreviatus 6484 Diatraea saccharalis
in rice grain, effects of glazing on 593	Loxostege sticticalis 6585, 6700	in Colombia 3940
in spices, in Egypt 2607	Lygus lineolaris, on strawberry 364	in Texas 3358
in stored groundnuts, in Kansas 3679	Melolontha hippocastani, on Quercus	Heliothis spp.
in sunflower seeds, interactions with other pests of 3681	5766 Mythimna convecta, in pastures 927	and biological control using in Colombia 5125
in wheat flour, effects of <i>Penicillium</i> on	Ophiomyia phaseoli, on Vigna	in Mexico 1662, 1671
6179	unguiculata 5671	H. armigera, and biological control
in wheat grain, in Chandigarh 5807	Opogona sacchari, on banana 6498	using, in Tadzhikistan 5714
in wheat products, extracting of 3668	Orgyia gonostigma, on fruit trees 3464 O. pseudotsugata 2071	H. zea, and biological control using, in California 5894
interactions with <i>T. castaneum</i> of 3619 Nosema whitei in, effects of 1618	on Pseudotsuga 2072	Mamestra brassicae
seasonal abundance of 2607	Peridroma saucia, on grapevine 944	and biological control using
sorbic acid in, toxicity to eggs of 6175	pests of grain crops 2867	in Bulgaria 2620
Tribolium destructor	pests of sugar-beet 1523	in France 1669 in France 1669
Adelina tribolii in, effects of 1618	Plutella xylostella 5839 Sitobion avenae, on grain crops 6349	Noctuidae, and biological control using,
enzymes in 1618 Nosema whitei in, effects of 1618	Solenopsis invicta 3838	in Chile 4174
pest status of, changes in 3334	Spodoptera littoralis, on cotton 5718	Ostrinia furnacalis, in Papua New
ribulatum, Trochometridium	S. litura, on tobacco 3050	Guinea 5533
Tribulus cistoides, Microlarinus spp. on, in	S. mauritia, in pastures 927 Sylepta derogata, on cotton 2538	O. nubilalis and biological control using 880
Mexico 1667 Tribulus terrestris	Thymelicus lineola, on Phleum 3978	in Bulgaria 2620
Aristotelia turbida on, in Australia 1910	Tribolium castaneum 5810	in France 2364
Microlarinus lareynii on	Xestia c-nigrum, on grapevine 944	in Switzerland 5538
and biological control using	Xyleborus dispar, on hazel 6455	in Ukraine 5249 Pachnaeus litus 6484
in California 855 in USA 1910	Yponomeuta malinellus, on apple 380 in Cales noacki, toxicity of 3493	P. opalus, in Florida 6484

noraciticina contd	competing with, Trichogramma	in Thailand 2539, 5128
parasitising contd. pests of maize, and biological control	evanescens 5096	parasitising
using, in Mexico 1653	host preferences in 5464	Bactra spp. 2169
	in USSR 5464	Chilo spp. 2169
pests of sugar-cane, and biological		
control using, in Mexico 1672	local forms of 5464	Eucosma spp. 2169
Pieris brassicae, in France 1669	mass release of 5250	Heliothis armigera, in Thailand 2539,
Prays oleae, in France 1657	parasitising, Mamestra brassicae, and	5128 Trichamamatoides erunterblobies
Scirpophaga incertulas, and biological	biological control using, in USSR	Trichogrammatoidea cryptophlebiae
control using, in Orissa 4515	5096 rearing of, techniques for 5464	sp. nov., description of 2169
Sesamia inferens, and biological control	group of 1669	parasitising, Cryptophlebia spp. 2169 Trichogrammatoidea eldanae
using, in Orissa 4515	Trichogramma evanescens	sp. nov., description of 5287
Sitotroga cerealella 1226, 1648	competing with, Trichogramma	in Ivory Coast 5287
Spodoptera spp., and biological control	euproctidis 5096	parasitising, Eldana saccharina, in Ivory
using, in Mexico 1671	feeding behaviour in 2813	Coast 5287
S. frugiperda	host preferences in 5464	Trichogrammatoidea flava, descriptions of
and biological control using, in	host selection in 2813	2169
Mexico 2303	in Bulgaria 419, 420	Trichogrammatoidea fulva
in Mexico 2303	in USSR 5096, 5464	sp. nov., description of 2169
parasitism by, factors affecting	local forms of 5464	parasitising, Cryptophlebia spp. 2169
effectiveness of 5477	mass release of 5250	Trichogrammatoidea guamensis
rearing of 2118	parasitising	sp. nov., description of 2169
techniques for 1226, 2620	Ephestia kuehniella 2813	parasitising, Lampides boeticus 2169
strains of 1669	Mamestra brassicae	Trichogrammatoidea hypsipylae
taxonomy of 2169	and biological control using, in	sp. nov., description of 2169
Trichogramma achaeae, in India 476	Bulgaria 419	parasitising
Trichogramma australicum	in Bulgaria 419, 420	Hypsipyla ferrealis 2169
in India 476, 921, 1493	in USSR 5096	H. grandella 2169
oviposition in 2241	Ostrinia nubilalis 2813	Trichogrammatoidea lutea
parasitising	population dynamics of 420	cross-mating of, with,
Atherigona soccata, in Maharashtra	rearing of, techniques for 5464	Trichogrammatoidea spp. 2829
921	group of 1669	descriptions of 2169
Corcyra cephalonica 1493	Trichogramma haitiensis, parasitising,	in Ghana 2552
Heliothis armigera, in Karnataka 1493	Pachnaeus opalus, and biological control	parasitising
taxonomy of, Trichogramma chilonis	using, in Florida 6484	Anomis leona, in Ghana 2552
misidentified as, in Indian	Trichogramma japonicum	Earias biplaga, in Ghana 2552
subcontinent 4185	in Bangladesh 6425	group of 2169
Trichogramma brasiliensis	in India 5549, 6395	Trichogrammatoidea nana
insecticides in, toxicity of 2343	in Indonesia 3415	descriptions of 2169
parasitising, Corcyra cephalonica 2343	in rice-fields, in Indonesia 3415	group of 2169
population growth rate in 2830	parasitising	Trichogrammatoidea prabhakeri
Trichogramma cacoeciae	Scirpophaga incertulas	sp. nov., description of 2169
determining duration of activity of	in Bangladesh 6425	cross-mating of, with,
pesticides on 5982	in Karnataka 5549	Trichogrammatoidea spp. 2829
in Poland 2445	in West Bengal 6395	in India 2829
in USSR 5096	Trichogramma minutum, parasitising,	parasitising, Achaea janata 2169
parasitising	Diatraea saccharalis, and biological	Trichogrammatoidea rara, descriptions of
Mamestra brassicae, in USSR 5096	control using, in Brazil 289 Trichogramma nubilale	2169
Orgyia antiqua, in Poland 2445	i ricnogramma nudilale	Trichogrammatoidea robusta
Trichogramma chilonis	parasitising, Ostrinia nubilalis 309	sp. nov., description of 2169
development in 5128	parasitising, Ostrinia nubilalis 309 searching efficiency in 309	cross-mating of, with,
development in 5128 in India 3418	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi	cross-mating of, with, Trichogrammatoidea spp. 2829
development in 5128 in India 3418 in Thailand 5128	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829
development in 5128 in India 3418 in Thailand 5128 parasitising	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealelia 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealelia 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichomalus, parasitising, Aylax papaveris,
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237	parasitising, Ostrinia nubilalis searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale)
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichogramsetoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2227 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 Trearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with,	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichogramsatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops for 6226
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichogramsatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising Eldana saccharina 1376	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-fungicide mixtures for 4613
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322 in Bulgaria 1706	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising Eldana saccharina 1376 Etiella zinckenella 2169	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-fungicide mixtures for 4613 insecticide-pathogen mixtures for 4616
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322 in Bulgaria 1706 in Italy 3079	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising Eldana saccharina 1376 Etiella zinckenella 2169 Heliothis armigera 2169	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichogramsatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-pathogen mixtures for 4906 insecticides for 1486, 2001, 2002,
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322 in Bulgaria 1706 in Italy 3079 insecticides in, toxicity of 1706	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising Eldana saccharina 1376 Etiella zinckenella 2169 Heliothis armigera 2169 Lampides boeticus 2169	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomalus, parasitising, Cnaphalocrocis medinalis, in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops for 6226 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-fungicide mixtures for 4613 insecticides for 1486, 2001, 2002, 2999, 4906
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322 in Bulgaria 1706 in Italy 3079 insecticides in, toxicity of 1706 parasitising	parasitising, Ostrinia nubilalis searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising Eldana saccharina 1376 Etiella zinckenella 2169 Heliothis armigera 2169 Lampides boeticus 2169 Trichogrammatoidea bactrae	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chomosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-fungicide mixtures for 4618 insecticides for 1486, 2001, 2002, 2999, 4906 mating disruption for 6698
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322 in Bulgaria 1706 in Italy 3079 insecticides in, toxicity of 1706 parasitising Cydia pomonella, in Bulgaria 1706	parasitising, Ostrinia nubilalis searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 Trearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising Eldana saccharina 1376 Etiella zinckenella 2169 Heliothis armigera 2169 Lampides boeticus 2169 Trichogrammatoidea bactrae sp. nov., description of 2169	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-pathogen mixtures for 4906 insecticide-pathogen mixtures for 4906 insecticide-pathogen mixtures for 4906 insecticide-pathogen mixtures for 4906 insecticides for 1486, 2001, 2002, 2999, 4906 mating disruption for 6698 threshold for 1486, 2999
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Homona magnanima, in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322 in Bulgaria 1706 in Italy 3079 insecticides in, toxicity of 1706 parasitising Cydia pomonella, in Bulgaria 1706 Ephestia kuehniella 6322	parasitising, Ostrinia nubilalis 309 searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 rearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea 1376 Etiella zinckenella 2169 Heliothis armigera 2169 Lampides boeticus 2169 Trichogrammatoidea boetrae sp. nov., description of 2169 cross-mating of, with,	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomalus, parasitising, Aylax papaveris, in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops for 6226 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-fungicide mixtures for 4613 insecticide-pathogen mixtures for 4613 insecticide-pathogen mixtures for 4906 insecticide for 1486, 2001, 2002, 2999, 4906 mating disruption for 6698 threshold for 1486, 2999 timing of 2002
development in 5128 in India 3418 in Thailand 5128 parasitising Heliothis armigera in India 3418 in Thailand 5128 taxonomy of misidentified as T. australicum, in Indian subcontinent 4185 Trichogramma confusum as synonym of 4185 Trichogramma confusum in Thailand 2539 parasitising, Heliothis armigera, in Thailand 2539 taxonomy of, synonym of T. chilonis 4185 Trichogramma dendrolimi development in, in artificial eggs 2237 emergence in, from artificial eggs 2237 in Japan 3056 oviposition in 2241 in artificial eggs 2237 parasitising Adoxophyes spp., in Japan 3056 Trichogramma embryophagum acaricides in, toxicity of 1706 Bacillus thuringiensis in, not pathogenic 1706 fungicides in, toxicity of 1706 host selection in 6322 in Bulgaria 1706 in Italy 3079 insecticides in, toxicity of 1706 parasitising Cydia pomonella, in Bulgaria 1706	parasitising, Ostrinia nubilalis searching efficiency in 309 Trichogramma perkinsi parasitising Diatraea saccharalis, and biological control using, in Colombia 5517 Sitotroga cerealella 5517 Trearing of, techniques for 5517 Trichogramma pretiosum host kairomones as affecting 4064 parasitising Eldana saccharina, and biological control using, in South Africa 1376 Heliothis spp., and biological control using, in Texas 1045, 5725 release methods for 1045 Trichogrammatidae attraction of, to host kairomones 3318 parasitising rice hoppers, in Philippines 3908 Spodoptera litura, in Andhra Pradesh 6574 Trichogrammatoidea parasitising, Chrysodeixis chalcites, in New Zealand 4823 taxonomy of 2169 Trichogrammatoidea armigera sp. nov., description of 2169 cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising Eldana saccharina 1376 Etiella zinckenella 2169 Heliothis armigera 2169 Lampides boeticus 2169 Trichogrammatoidea bactrae sp. nov., description of 2169	cross-mating of, with, Trichogrammatoidea spp. 2829 in India 2829 parasitising, Hypsipyla robusta 2169 Trichogrammatoidea simmondsi sp. nov., description of 2169 parasitising Chilo spp. 2169 Diopsis thoracica 2169 Trichogrammatoidea thoseae sp. nov., description of 2169 parasitising Setora nitens 2169 Thosea asigna 2169 Trichomalus, parasitising, Aylax papaveris, in France 5713 Trichomma cnaphalocrocis in Philippines 904 parasitising, Cnaphalocrocis medinalis, in Philippines 904 Trichonotus analis (see Agrypon anale) Trichoplusia ni activity in, diel rhythm of 98 Bacillus thuringiensis in, cytotoxicity of 5851 chemoreceptors in 1778 chromosome translocations in 4276 control of 1286 biological 2001, 3514 companion crops for 6226 companion crops ineffective for 2471 growth regulators for 2985, 3228 insecticide-pathogen mixtures for 4906 insecticide-pathogen mixtures for 4906 insecticide-pathogen mixtures for 4906 insecticide-pathogen mixtures for 4906 insecticides for 1486, 2001, 2002, 2999, 4906 mating disruption for 6698 threshold for 1486, 2999

•		
Trichoplusia ni contd.	2,6-Tridecadienoic acid, 7-ethyl-10,11-	Trifolium alexandrinum
in Honduras 3557	dihydroxy-3,11-dimethyl-, in Manduca	Aiolopus thalassinus on, in Pakistan 23
in Mexico 1647	sexta, JH metabolite 3252	arthropod pests of, in Egypt 4357
in USA 480, 492, 1286, 1484, 1486, 2001, 2002, 2471, 2999, 3514, 4613,	9,12-Tridecadien-1-ol, 11-methyl-, acetate,	insect pests of, in Egypt 4355
4906, 5646, 6226	(Z)-, synergist for, Adoxophyes attractants 5274	Schistocerca gregaria on, development of 2319
juvenile hormones in, regulation of 1216	4,7-Tridecadien-1-ol	Spodoptera littoralis on, in Egypt 3822
nuclear polyhedrosis virus in	acetate, (4E,7Z)-	Stomopteryx subsecivella on, damage
antigens of 608, 3692	attractant for, Phthorimaea operculella	caused by 1427
infectivity of 1627	1021	Trifolium incarnatum, legume yellows virus
interference between strains of 1639	with $(4E,7Z,10Z)$ -4,7,10-tridecatrienyl	in, infectivity of 3003
pathogenicity of 609 properties of 3154	acetate, attractant for, Phthorimaea	Trifolium pratense Aculus trifolii on, in Bulgaria 6440
replication of 6688	operculella 1605 9,12-Tridecadien-1-ol, 11-methyl-, acetate,	Acyrthosiphon kondoi on, in Japan 142
restriction maps of 4682	(Z)-, with $(9Z, 12E)$ -9,12-tetradecadienyl	Agrotis ipsilon on 68
on broccoli, in Nebraska 6226	acetate, (Z)-9-tetradecenyl acetate, and	Cerotoma trifurcata on, development of
on cabbage in Florida 2002	(Z)-11-tetradecenyl acetate, attractant	6190
in Georgia (USA) 2002, 2999	for, Adoxophyes spp. 6584	Colaspis brunnea on, in Louisiana 4310 C. louisianae on, in Louisiana 4310
in Missouri 2001	1-Tridecanol, acetate, on rubber septa, half-	Hylastinus obscurus on, in Chile 932
in Nebraska 6226	life of 4171 2-Tridecanone	Sitona lineatus on
in Virginia 2471	in Aphis gossypii, toxicity of 5115	development of 4579
on Chrysanthemum, in Florida 4613 on cotton	in Heliothis zea, toxicity of 5115	in USA 4580 Sphecidae on, in Uzbekistan 3337
in California 480	in Lycopersicon hirsutum 5115	Tetranychus urticae on
in Honduras 3557	in Manduca sexta, toxicity of 5115	development of 719
interactions of carbohydrate balance	in tomato 5115	in Japan 5921
and 2040	4,7,10-Tridecatrien-1-ol, acetate,	Trifolium repens
on kale in Missouri 3514	(4E,7Z,10Z)-, with (4E,7Z)-4,7- tridecadienyl acetate, attractant for,	Acyrthosiphon kondoi on, in Japan 142 as cover crop in cabbage fields 6506
in Virginia 4906	Phthorimaea operculella 1605	Coleophora spp. on
on lettuce	4-Tridecene, in Oecophylla longinoda venom	damage caused by 6439
in Arizona 5646	48	effects of row spacing on 6439
in California 1486	11-Tridecen-1-ol, acetate, (Z)-, mating	Costelytra zealandica on, in New Zealan
on soyabean, in USA 1484 on tomato, in Egypt 2500	disrupter for, <i>Argyrotaenia velutinana</i> 4923	5872 Sitona spp. on, in Himachal Pradesh
overwintering in 492	tridens, Ips	2930
parasitised by, Brachymeria intermedia	tridenticulatus, Acanthoscelides	S. lineatus on
5483	Tridesmodes ramiculata	development of 4579
predators of	descriptions of 1578	in USA 4580
effects of insecticides on 480 trail-following by 1288	in Ghana 1578 in Nigeria 1578	Trifolium semipilosum, Therioaphis trifolii on, development of 930
preyed on by, Nabis americoferus, in	on Terminalia ivorensis, damage caused	Trifolium subterraneum, legume yellows
California 480	by 1578	virus in, infectivity of 3003
pyrethroids in, metabolism of 656	Triepeolus, mating in 91	trifurcata, Cerotoma
rearing of, diets for 5427 seasonal abundance of 1647	trifasciata, Coccinella trifenestrata, Cricula	Triglycerides (see Glycerides) Trigona
sex-pheromone gland in, muscles	Trifenofos (O-ethyl S-propyl O-(2,4,6-	on Pinus
associated with 2180	trichlorophenyl) phosphorothioate)	damage caused by 5171
sterility in, inheritance of 4276	against	pollination by 5171
Vairimorpha necatrix in, pathogenicity of	Euproctis melania 3798	Trigonella foenum-graecum (see Fenugreek
3686 valinomycin in, cytotoxicity of 5851	Tetranychus urticae, on peach 971 trifoliearum, Liriomyza	Trigonogenius globulus in West Germany 3107
Trichopoda pennipes	trifolii, Aculus	in chemical stores, in West Germany
attraction of, to host aggregation	trifolii, Apion	3107
pheromone 6109	trifolii, Discestra (Scotogramma)	Trigonotylus, in vineyards, in Pennsylvania
in USA 6109	trifolii, Liriomyza trifolii, Scotogramma (see Discestra trifolii)	5059 Trigonotylus coelestialium
Trichopria, parasitising, Atherigona soccata, in Maharashtra 921	trifolii, Therioaphis	biology of 2361
Trichopsenius depressus, termite trail	Trifolium	control of, cultural 2361
pheromones followed by 5488	Acyrthosiphon kondoi on, development of	food-plants of 3305
Frichoptera, book 6265	930	in Poland 3305
Trichosanthes anguina Diaphania indica on, development of	A. pisum on, in New Zealand 4584 Agrotis ipsilon on, in Egypt 933	in USSR 2361 on wheat
1499	Apion apricans on	damage caused by 2361
Leptoglossus australis on, feeding by	damage caused by 3519	effects of sowing date on 2361
2242	in USSR 5963	Trigonotylus ruficornis
Trichosporium symbioticum	arthropod pests of in Romania 2849	in USSR 3374 on wheat, damage caused by 3374
Abies grandis, containment of 2585	in UK 5575	trigotephras, Orgyia
Scolytus ventralis, transmission of	as cover crop for oat fields 3883	trilobitiformis, Pseudaonidia
2585	as cover crop in cabbage fields 5928	trimaculatus, Ceutorhynchus
Trichothecium roseum, Tyrophagus	Bryobia cristata on, in UK 1451	trimaculatus, Eysarcoris Trimedlure (1,1-dimethylethyl 4(or 5)-
putrescentiae on, attractants for 2153 Trichouropoda bipilis	B. kissophila on, in UK 1451 Curculionidae on, in UK 425	chloro-2-methylcyclohexanecarboxylate)
in West Germany 2053	Eurygaster integriceps on 6351	attractant for, Ceratitis capitata 3700,
parasitising, Leperisinus varius, in West	Hypera punctata on, in Honshu 5051	3722, 5377
Germany 2053	insect pests of, in France 3002	dispensers for 3700, 3722
ricinctorius, Syrphophilus	insecticides in, toxicity of 6700	with naled 3700 Trimeromicrus, parasitising, Smicronyx
ricinctus, Diplazon (see D. tetragonus) Triclistus emarginalus	leaf miners on, in Yugoslavia 6433 pest control on 2849, 5575	fulvus, in North Dakota 1539, 6259
in Canada 951	in USSR 351	Trimerotropis pallidipennis
parasitised by, Mesopolobus spp., in	insecticides for 3002	chromosome polymorphism in 4424
British Columbia 951	thresholds for 5963	in Argentina 4424
parasitising, Eutromula pariana, in British	Sitona lineatus on, in USA 4580 Spodoptera eridania on, feeding by 2923	Trinervitermes bettonianus recruitment in, effects of food on 4468
Columbia 951	S. littoralis on	trail-laying in, effects of food on 4468
ricoloripes, Hyposoter	effects of irrigation on 5581	Trinervitermes biformis
-Tricosene, (Z)- (see Muscalure)	in Egypt 4477	distribution of 846
Fricyclo[4.4.0.0 ^{2,7}]dec-3-ene, 1,3-dimethyl-8-	subterranean clover red leaf virus in, in	in India 846, 1896 Trinervitermes geminatus
(1-methylethyl)-, in maize oil 2649 Tridax procumbens, Aphis citricola on, in	New Zealand 1504 Therioaphis trifolii on, development of	foraging in 4526
Karnataka 401	930	in Nigeria 4524, 4525, 4526

Trinervitermes geminatus contd. Triphaena pronuba (see Noctua pronuba) Triticale (Triticum × Secale) Triplosporium fresenii, in, Aphis citricola, Mayetiola destructor on, resistance to in grassland damage caused by 4524, 4526 nest populations of 4525 soil populations of 4525 development of infection with 5621 6155 Triprene (S-ethyl (2E,4E)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienethioate) Sipha flava on, resistance to 3372 Triticale fields, Amblyseius scyphus in, in population dynamics of 4525 Texas 920 against Trinervitermes occidentalis Choristoneura occidentalis 5154, 5155 tritici, Contarinia in Nigeria 4525 Heliothis armigera, on cotton 208 tritici, Frankliniella in grassland, in Nigeria 4525 in Choristoneura occidentalis, effects on tritici, Haplothrips Trinervitermes togoensis in Nigeria 4525 in grassland, in Nigeria 4525 reproduction of 5155 tritici, Pyemotes in Epiphyas postvittana, effects of 2149 Triticum aestivum (see Wheat) in Heliothis armigera, effects of 3803, Triticum araraticum, Meromyza nigriventris on, resistance to 5022 Trinidad and Tobago 4163 on, resistance to Acromyrmex octospinosus in 1333, 1334
Atta cephalotes in 1333
biological control in 3185
Chalcidoidea in 2768
Craphulo crap in Stochutory Triticum boeoticum, Meromyza nigriventris in Microctonus aethiopoides, effects of on 5022 6241 in Microctonus colesi, effects of 6241 in mouse cell lines, toxicity of 4168 Triticum dicoccoides, Meromyza nigriventris on, resistance to 5022 Cryphula spp. in, on Stachytarpheta 2348 in Myzus persicae, effects of 1717 Triticum durum (see Wheat)
Triticum × Secale (see Triticale) in Nilaparvata lugens, effects on ovarian development of 2403 Hypsipyla grandella in, on Carapa Lipostemmata humeralis in 4486 L. major in 4486 1075 Triticum urartu, Meromyza nigriventris on, resistance to 5022 in Samia cynthia, increasing silk production 4366 triobliqua, Calpe (see Oraesia triobliqua) triobliqua, Oraesia (Calpe) Tritirachium dependens, insect hormones in, no effects from 3720 tripsaci, Baldulus tripunctana, Acleris tripunctata, Limnoria Trirhabda bacharidis Triton B, in parathion formulations 981 Triton B-1956 (see Alkyd resins) Triton X-100, in diazinon formulations, Triommata, preying on, Fiorinia theae, in Assam 1057 Trionymus internodii in Israel 6012 on Baccharis halimifolia effects on insecticidal activity of 6707 on pineapple, in Israel 6012 1,3,5-Trioxane, 2,4,6-trimethyl-with 10*H*-phenothiazine and biological control using, in Tritriacontane, in Lasioderma serricorne Queensland 5498 feeding by 4912 Trisetacus laricinae cuticle 5331 cuticle 5331
Tritriacontane, 11,12-dimethyl-, in
Lasioderma serricorne cuticle 5331
triturata, Spodoptera
trivitalis, Forda (see F. marginata)
trivittata, Acalymma
Trochometridium chinensis
distribution of 135 against
Varroa jacobsoni 252, 3851
on Apis mellifera 6297, 6301
Trioxys, parasitising, Therioaphis trifolii,
and biological control using, in New
South Wales 6437 sp. nov., description of 527 in Canada 527 on Larix laricina, in Ontario Trisetacus strobi sp. nov., description of 527 in Canada 527 distribution of hosts of 135 Trioxys angelicae Trochometridium tribulatum biology of 135 in Greece 6302 on Pinus strobus, in Ontario 527 Trisetacus strobiphagus parasitising Aphis gossypii, in Greece 6302 Toxoptera aurantii, in Greece 6302 sp. nov., description of 2656 in USA 2656 distribution of 135 fungus feeding in 135 hosts of 135 Trioxys asiaticus in Mongolia 3348 in USSR 3376 on Pinus sabiniana, in California 2656 hosts of Trissolcus Trogoderma adult feeding in 178 rearing of, diets for larval head-capsules in 3368 parasitising, Eurygaster integriceps, and biological control using, in Iran 3364 Trissolcus euschisti in USA 2415 parasitising, grain aphids, in Kazakhstan Trogoderma angustum
in Netherlands 816
in dwellings, in Netherlands 816
Trogoderma glabrum Trioxys complanatus, in Mongolia 3348 Trioxys indicus area of discovery of 5100 in India 5108 parasitising Acrosternum hilare, in Kentucky 2 Euschistus spp., in Kentucky 2415 control of, resistant packing containers for parasitised by, *Alloxysta* spp., in Uttar Pradesh 5108 Euschistus spp., in Kentucky Trissolcus grandis 2606 development in, effects of diet on 6181 nutrition of 6181 rearing of, diets for 178 wheat-germ oil in, effects of moulting cycle on responses to 6174 fecundity in, effects of host kairomones on parasitising Aphis craccivora 2839, 5100 in Uttar Pradesh 5108 3861 in USSR 5112 life-span in, effects of host kairomones on 3861 sex ratio in effects of host density on 2839 effects of population density on 2839 Trioxys nepalensis cycle on responses to orresponses to orresponse to orresponses to orresponse to orresponse to orresponses to orresponse to or parasitising Eurygaster integriceps in Caucasus 5112 3861 descriptions of 4979 in India 4979 Podisus maculiventris 5112 control of parasitising, Aphis citricola, in Meghalaya Trissolcus rungsi in Spain 3366 air-tight storage conditions for 6655 fumigants for 673, 1607, 3114 insecticides for 1612, 6654 4979 Trioxys pallidus in Iran 3991 in Italy 5592 parasitising, Aelia rostrata, in Spain 3366 EPPO data sheet on 4703 Trissolcus scuticarinatus in soyabean meal, development of 5830, in Argentina 4442
parasitising, Piezodorus guildinii, in
Argentina 4442
Trissolcus viktorovi
in USSR 5112 in walnut orchards, effects of insecticides on 3991 6667 in stored products, imported into USSR parasites of, in California 3991 1607 light responses in 2743
phosphine susceptibility in, effects of
temperature on 673 parasitising Chromaphis juglandicola
and biological control using, in
California 3991 parasitising Eurygaster integriceps, in Caucasus 5112 sex pheromone of in Italy 5592 activity of optical isomers of 6061 responses to enantiomers of 743 responses to enantiomers of sterols in, sources of 3749 Trioza apicalis
control of, insecticides for 1490
in Finland 1490 Podisus maculiventris 5112 tristicolor, Orius tristicula, Euxoa tristigmus, Euschistus tristis, Ambeodontus taxonomy of on carrot, in Finland 1490 characters distinguishing T. inclusum and 3666 Trioza erytreae tristis, Ambeddonius tristriata, Aceria tristriatus, Cyphostethus trisulcatus, Tetrastichus citrus greening disease, causal agent in, transmission of 1467, 1469 characters distinguishing T. variabile and 3666 traps for 6180 biological 1467, 5077 insecticides for 1469, 5627 in Réunion 1467, 5077 in South Africa 1469 trisulcum, Aulonium Trisulfide, dimethyl Trogoderma inclusum control of attractant for insecticides for 3126 resistant packing containers for 2606 in UK 3666 Delia antiqua 687 Megaponera foetens tritaeniorhynchus, Culex Trioza galii 3868 in Turkey 1310 on grapevine, in Turkey 1310 taxonomy of 1,2,3-Trithian-5-amine, N,N-dimethyl- (see characters distinguishing T. granarium Triozocera Thiocyclam) and 3666 characters distinguishing T. variabile and 3666 in Thailand 4188 Trithion (see Carbophenothion) keys to 4188

Sudject 111don		1147
Trogoderma variabile	tryoni, Dacus	tunicatus, Pantilius
control of	Trypetidae	Tunisia / / / / / / / / / / / / / / / / / / /
fumigants for 4666 insecticides for 4666	in Réunion 694	Drosophila melanogaster in, on Opuntia
resistant packing containers for 2606	in Spain 817 Tryphactothrips rutherfordi	4990
diapause in 3105	control of, insecticides for 378	D. simulans in, on Opuntia 4990 Eurytoma plotnikovi in, on Pistacia vera
effects of population density on 4659	in India 378	2944
regulation of 2217	on mulberry, in India 378	Lamellicornia in 4852
in Australia 4666	Tryphoninae, parasitising, Tenthredinidae, in	Megastigmus pistaciae in, on Pistacia vera
in UK 3666	Europe 5773	2944
in stored grain, in Western Australia 4666	Trypodendron domesticum (see Xyloterus	plant protection in 3238
larvae of, effects of starvation on 6184	domesticus) Trypodendron lineatum (see Xyloterus	Tur (see Cajanus cajan) turanicum, Chalybion (Sceliphron)
larval development in 3105	lineatus)	turanicum, Sceliphron (see Chalybion
taxonomy of	Trypodendron signatum (see Xyloterus	turanicum)
characters distinguishing T. granarium	signatus)	turbida, Aristotelia
and 3666	Trypophloeus populi (see Cryphalus populi)	turcomana, Acheta
characters distinguishing T. inclusum and 3666	control of, insecticides for 882, 2372	Turf (see Lawns and sports turf) turionella, Blastesthia
Trogoderma versicolor	on rice	turionellae, Coccygomimus (see Pimpla
in Morocco 3068	damage caused by 882	turionellae)
preying on, Lymantria dispar, in Morocco	in Bangladesh 4495	turionellae, Pimpla (Coccygomimus)
Transdoment (see 8 Harradaean 1 14 mathril)	in Philippines 2372	turkestanicus, Anacanthotermes
Trogodermal (see 8-Hexadecenal, 14-methyl-)	Tryporyza incertulas (see Scirpophaga incertulas)	Turkey Acanthosomatidae in 4095
Trombidiformes, in Norway 4407	Tryporyza innotata (see Scirpophaga	Aonidiella aurantii in, natural enemies of
Tropaeolum, as companion crop for insect	innotata)	6482
control 3512	Tryporyza nivella	A. citrina in, natural enemies of 6482
Tropaeolum majus	in India 6308	Blastophaga psenes in, on fig 4000
Aphis barberae on, in Manitoba 6017 A. fabae on, not developing 6016	on sugar-cane, in Punjab 6308 parasites of, effects of insecticides on	Ceroplastes rusci in, on fig 4000 Chrysomphalus dictyospermi in, natural
Phyllotreta undulata on, feeding by 4018	2357	enemies of 6482
Tropaeolum minus, not protecting cabbage	parasitised by, Telenomus dignoides, in	Cicada lodosi in, on Pinus 1184
against lepidopterous pests 2471	Punjab 6308	C. mordoganensis in, on olive 1184
Tropiconabis capsiformis	Trypoxylon politum, nesting behaviour in	Cicer in, pests of 5678
development in, effects of temperature on 4058	6102 Trypsin, in Chilo auricilius gut 5319	Dendroctonus micans in, on Picea 1604
in Australia 2546, 4058	Tryptamine (see 1H-Indole-3-ethanamine)	Hoplopteridius lutosus in, on Crocus vernus 3877
in cotton-field borders, in Queensland	L-Tryptophan	Meloidae in 4297
2546	in Carausius morosus, metabolism of	Micromerus erivanicus in, on sainfoin
in cotton fields, in Queensland 4058	3738 in <i>Pieris brassicae</i>	3980 Psylloidea in 1310
reproduction in, effects of temperature on 4058	excretion of 1783	Pyrochroa coccinea in
Tropidacris dux	incorporation into xanthommatin of	on Abies 1084
in El Salvador 5167	1783	on Pinus 1084
on Pinus, in El Salvador 5167	in Sitophilus oryzae diet, requirement for 3269	Saissetia oleae in, on olive 6493
Tropilaelaps clareae in USSR 602	L-Tryptophan, 5-hydroxy-, in Manduca sexta	Spodoptera littoralis in, on cotton 4063 Syringopais temperatella in, on grain
parasitising, Apis mellifera, in USSR 602	751	crops 1389
spread of, with Apis mellifera breeding	Tsuga, Fiorinia externa on, in Connecticut	Tephritidae in 1311
material 4804	4920 Touga canadangia Fiorinia externa en in	turkmenicus, Microcerotermes
Tropinota squalida, in Tunisia 4852 Tropisternus lateralis	Tsuga canadensis, Fiorinia externa on, in Connecticut 3608	turkmenicus, Sclerodermus Turmeric (Curcuma longa)
in USA 5556	tubercularis, Aulacaspis	Mimegralla coeruleifrons on, in
preying on, Chironomidae, in California	Tuberculatus annulatus	Maharashtra 5509
5556	in Australia 3067 on Quercus, in New South Wales 3067	turnbulli, Aeoloplides Turnip (Brassica campestris subsp. rapifera)
Tropobracon, in rice-fields, effects of insecticides on 6411	predators of, parasitism of 3067	Brevicoryne brassicae on, in North
Tropobracon schoenobii	preyed on by, Harmonia conformis, in	Carolina 4046
in India 3910	New South Wales 3067	Ceutorhynchus napi on, damage caused
parasitising, Scirpophaga incertulas, in	tuberculatus, Eumerus	by 3702
West Bengal 3910 trouessarti, Cheyletus	tuberculifera, Microplitis Tuberolachnus salignus, energy budget of	Colaspis louisianae on, in Louisiana 431 Lipaphis erysimi on
Trout, brook (see Salvelinus fontinalis)	4031	in Japan 1535
truncatella, Litomastix	tuberum, Leptothorax	resistance to 4046
truncatus, Prostephanus	tubifer, Typhlodromus	Myzus persicae on
truncorum, Formica Trupanea amoena	Tubulifera, preying on, Saissetia oleae, in Libya 5083	in Japan 1535 in North Carolina 4046
in Turkey 1311	Tubulins, in Drosophila melanogaster	Phyllotreta undulata on, feeding by 401
on lettuce, in Turkey 1311	embryo, assembly of 1791	Plutella xylostella on, in North Carolina
Trybliographa	Tuckerella kumaonensis	4046
biology of 2811 life history of 4890	sp. nov., description of 4634 in India 4634	Tipula spp. on, in Scotland 864 Turnip fields, Syrphidae in, in Poland 189
parasitising	on Pinus, in Uttar Pradesh 4634	Turnip mosaic virus, control of, vector
Drosophila spp., in North Carolina	Tucumania tapiacola, on Opuntia aurantiaca,	control for 5089
4890	and biological control using, in South	Turnip rape (Brassica campestris var. oleifera)
D. melanogaster 4911 in North Carolina 2811	Africa 4480 tujafilina, Cinara	arthropod pests of, in Finland 4476
reproductive plasticity in 4911	tulipae, Aceria (Eriophyes)	Phyllotreta undulata on, feeding by 401
Trybliographa albipennis, taxonomy of,	tulipae, Eriophyes (see Aceria tulipae)	Turpentine
Trybliographa spaniandra as synonym of	Tullbergia krausbaueri	repellent for Blepharipa zebina 2846
4736 Trybliographa bochei 4890	in UK 3424 in industrial reclamation sites, in England	Parasarcophaga knabi 2846
taxonomy of, synonym of Ganaspis	3424	Tween 80, in diazinon formulations, effects
subnuda 4736	Tumidiclava	on insecticidal activity of 6707
Trybliographa daci, parasitising, Pterandrus	parasitising	Tydeidae control of, acaricides for 2640
rosa, and biological control using, in Réunion 694	Phragmataecia gummata 1379 Sesamia spp., in Ghana 4497	in USSR 2269
Trybliographa rapae, parasitising, Delia	tumidus, Hemicheyletia	on Quercus, in Texas 3061
brassicae 5928	tumidus, Tetranychus	taxonomy of 2176
Trybliographa spaniandra, taxonomy of,	tumifex, Paradiplosis Tumors (see Neoplasms)	sp. nov., description of 2269
synonym of <i>T. albipennis</i> 4736 trychiata, Oxydia	Tunaima, taxonomy of 16	in USSR 2269
or Journal On Julia	.,	

```
Tydeus californicus, in USSR 2269
                                                                                                                                                                                                                  Tyrophagus putrescentiae contd.
in fungus collections, in Italy 5012
                                                                                                         Typhlodromus occidentalis contd.
                                                                                                          sex pheromone of 4239

Typhlodromus perbibus, in USSR
 Tydeus caudatus, in USSR 2269
                                                                                                                                                                                                                       in oat grain, varietal preferences of 3135 in Vicia faba seeds, in Manitoba 3127
 Typhaea stercorea
     in USA 6170
in maize grain, in Minnesota 6170
                                                                                                          Typhlodromus phialatus, in USSR
                                                                                                                                                                                     3848
                                                                                                         Typhlodromus pini
in USA 1893
group of 831
in California 1893
                                                                                                                                                                                                                       life-span in, effects of diet on 3772 lipids in 3755
 Typhlocyba pomaria
biology of 384
                                                                                                                                                                                                                       spice oils in, effects of 6172
     coldhardiness in 384
                                                                                                                                                                                                                       tricalcium phosphate in, effects of 3652
coldhardiness in 384
control of, insecticides for 6468
in Canada 384
in USA 6468
on apple
damage caused by 384
in Illinois 6468
preyed on by, Blepharidopterus angulatus,
in Nova Scotia 384

Typhlocybinae
on apple, in Virginia 4919
preyed on by, Araneae 4919

Typhlodromalus
preving on, Mononychellus tanaioa 2654
                                                                                                         in California 1893

Typhlodromus pomi
in USA 2963, 4552
in apple orchards
in Massachusetts 4552
in New York 2963

Typhlodromus pyri
in Libya 5083
in USA 3061
insecticide resistance in 963
insecticides in, toxicity of 965
pesticides in, toxicity of 376
preying on
                                                                                                                                                                                                                  L-Tyrosine, in Artogeia rapae, incorporation into cuticular proteins of 1213
                                                                                                                                                                                                                  L-Tyrosine, 3-hydroxy- (see Levodopa) tyrrhea, Gonimbrasia
                                                                                                                                                                                                                  tyrrheus, Psyllaephagus
Tytthus chinensis
                                                                                                                                                                                                                       in Solomon Islands 3698 preying on, Nilaparvata lugens, in
                                                                                                                                                                                                                               Solomon Islands 3698
                                                                                                                                                                                                                   Tytthus parviceps
                                                                                                                                                                                                                       in India 886
                                                                                                              preying on Panonychus ulmi, and biological control
 Typniotromatus
preying on, Mononychellus tanajoa 2654
rearing of 2654
Typhlodromips tetranychivorus
biology of 994
in India 994
                                                                                                                                                                                                                       preying on
                                                                                                                                                                                                                            Nephotettix nigropictus, in Karnataka
                                                                                                                   using, in Tasmania 963
Saissetia oleae, in Libya 5083
Tetranychidae, and biological control
using, in Australia 5950
                                                                                                                                                                                                                                   886
                                                                                                                                                                                                                             Nilaparvata lugens, in Karnataka 886
                                                                                                                                                                                                                   Tytthus pygmaeus
in UK 3443
                                                                                                                                                                                                                  Tytthus pygmaeus
in UK 3443
in grassland, effects of cutting on 3443
U-42662 (see Methanesulfenamide, 1,1,1-
trichloro-N-[[(4-chloro-2-
methylphenyl)imino]methyl]-N-methyl-
UBI-R677, against, Agrotis ipsilon 6168
ubiquitus, Promematus
UC-10854 (see Phenol, 3-(1-methylethyl)-,
methylcarbamate)
UC-51762 (see Thiodicarb)
uelense, Decamorium
Uganda
                                                                                                          Tetranychus urticae, and biological control using, in Tasmania 96.

Typhlodromus tiliae (see T. pyri)
     preying on, Tetranychus ludeni, in
Karnataka 994
 Typhlodromus
     in apple orchards
in New York 2963
in Utah 2439
                                                                                                          Typhlodromus tiliarum
in USSR 2953
in apple orchards, in Ukraine 2953
                                                                                                          organophosphates in, resistance to Typhlodromus tubifer, in USSR 3848
 Typhlodromus arboreus
in USA 1893
in USA 1893
taxonomy of, distinct from T. citri 831
Typhlodromus athiasae, preying on,
Tetranychus cinnabarinus 2454
Typhlodromus brisbanensis
sp. nov., description of 1957
in Australia 1957
in strawberry fields, in Queensland 1957
Typhlodromus caudiglans
descriptions of 1957
taxonomy of, Typhlodromus dossei
misidentified as 1957
Typhlodromus citri
                                                                                                          Typhlodromus vulgaris
in Japan 3841
                                                                                                              preying on, Panonychus citri, in Hokkaido
                                                                                                                                                                                                                   Uganda
                                                                                                                                                                                                                       Acrocercops caeruleus in, natural enemies of 6581
                                                                                                               seasonal abundance of 3841
                                                                                                         typica, Thomsonisca
typographus, Ips
Tyria jacobaeae
in Netherlands 5500
                                                                                                                                                                                                                      agricultural entomology in 2653
Antestiopsis intricata in, on coffee
A. orbitalis in, on coffee 499
Chalcidoidea in 4462
locust control in 5898
                                                                                                              on Senecio jacobaea
and biological control using
in New Zealand 3355
                                                                                                                                                                                                                       plant protection in 3238
Spodoptera exempta in 5909
Tetranychidae in, on cassava 6545
 Typhlodromus citri
     in USA 1893
                                                                                                                        in Prince Edward Island 2792
                                                                                                                   in Quebec 4483
in Netherlands 5500
     taxonomy of
                                                                                                                                                                                                                   Ulex europaeus, Anisoplaca ptyoptera on, in
New Zealand 5890
           distinct from T. arboreus 831
           Typhlodromus columbiensis as synonym
                                                                                                                   uptake of pyrrolizidine alkaloids by
                                                                                                                           5450
                 of 1893
                                                                                                                                                                                                                   ulicis, Apion
 Typhlodromus columbiensis, taxonomy of, synonym of T. citri 1893
                                                                                                              parasitised by, Apanteles popularis 6323 population dynamics of 5500, 6323
                                                                                                                                                                                                                   uliginosa, Parasarcophaga (see Sarcophaga
                                                                                                                                                                                                                          uliginosa)
                                                                                                                                                                                                                  uliginosa) uliginosa, Sarcophaga (Parasarcophaga) uliginosus, Geocoris ulmi, Corythucha ulmi, Diaphnocoris ulmi, Eriosoma (Schizoneura) ulmi, Lepidosaphes ulmi, Panonychus ulmi, Schizoneura (see Eriosoma ulmi) ulmi, Tetraneura ulmifoliella, Phyllonorycter
 Typhlodromus dossei
sp. nov., description of 1957
in Australia 1957
in fig orchards, in New South Wales
1957
                                                                                                              preyed on by, Formica polyctena, in
Netherlands 5500
                                                                                                          Tyroborus lini
in India 4116
                                                                                                              in Cicer arietinum seeds, in Haryana 4116
preying on, Eriophyidae, in New South
Wales 1957
taxonomy of, misidentified as T.
caudiglans 1957
Typhlodromus homalii
in India 2451
                                                                                                          Tyroglyphus casei (see Tyrolichus casei)
Tyrolichus casei
control of
                                                                                                          control of
acaricides for 3116
mould inhibition for 3116
in USSR 602
in beehives, in USSR 602
in cheese 3116

Tyrophagus
                                                                                                                                                                                                                   Ulmus
     preying on, Brevipalpus phoenicis, in Punjab 2451
                                                                                                                                                                                                                       Ceratocystis ulmi in
in Belgium 3824
 Typhlodromus longipilus
in USSR 2953
                                                                                                                                                                                                                            in Europe
                                                                                                                                                                                                                                                     3087
                                                                                                                                                                                                                            in France 6610
                                                                                                                                                                                                                       in Kansas 5209
in Netherlands 533
in North America 3087
in Yugoslavia 3568
Coleoptera on, in Netherlands 532
Edwardsiana iranicola on, in USSR
 in apple orchards, in Ukraine 2953
organophosphates in, resistance to 2953
Typhlodromus occidentalis
                                                                                                              control of
                                                                                                                   acaricides for 811 inert dusts for 3652
     genetic improvement of 4806 in USA 3994
                                                                                                               in insect-rearing incubators, in Tasmania
                                                                                                                     811
     in almond orchards, effects of insecticides on 3994
                                                                                                          on cucumber, in UK 6508
Tyrophagus casei (see Tyrolichus casei)
Tyrophagus longior
in Irish Republic 3436
in grassland, in Irish Republic 3436
                                                                                                                                                                                                                       Eriosoma americanum on, in Pennsylvania
     insecticide resistance in 963
                                                                                                                                                                                                                              5061
     insecticides in, toxicity of 965 parahaploidy in 1239
                                                                                                                                                                                                                       E. ulmi on, in West Germany 2746
Hylurgopinus opaculus on, in Kansas
5209
     Panonychus ulmi
Panonychus ulmi
and biological control using, in
Tasmania 963
in California 3994
                                                                                                          Tyrophagus putrescentiae
alarm-pheromone glands in 5325
attractants for, in Trichothecium roseum
2153
                                                                                                                                                                                                                      5209
Scolytidae on, in Yugoslavia 3568
Scolytus spp. on
in Denmark 6600
in Netherlands 533
S. multistriatus on
in Belgium 3824
in Kansas 5209
in New York 4924
in Wisconsin 4924
S. scolytus on
in Belgium 3824
                                                                                                               control of
          Tetranychidae, and biological control using, in Australia 5950

Tetranychus pacificus, in California 3994
                                                                                                              acaricides for 5012
growth regulators for 6172
inert dusts for 3652
UV-irradiation for 3647
enzymes in 4758
           T. urticae
               and biological control using
                                                                                                               fecundity in, effects of diet on 3772 in Canada 3127
                                                                                                              in Canada 31
in Italy 5012
in UK 4660
in USA 3062
                                                                                                                                                                                                                       in Belgium 3824
in England 531, 3095
Tenthredinidae on, in Europe 5746
Tetraneura ulmi on, in Pennsylvania
                    in Tasmania 963
in Victoria 6460
     rearing of, techniques for 6460 reproduction in, effects of X-irradiation on
                                                                                                              in USA 3062
in USSR 5803
```

Xanthogaleruca luteola on, developmen of 538 Ilmus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Ilmus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associate with 4626 S. scolytus on, mites associated with 4626 Ilmus glabra Ceratocystis ulmi in, in Denmark 566 Ilmus glabra Ceratocystis ulmi in, in Denmark 566 Ilmus minor, Luperus leonardii on, in Ita 4103 Ilmus parvifolia, Xanthogaleruca luteola development of 538 Ilmus parvifolia, Xanthogaleruca luteola development of 538 Ilmus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus pumila, Xanthogaleruca luteola on movera luteola on development of 538 Ilmus scabra, Lymantra dispar on, susceptibility to Bacillus thuringiensis 4653 Iltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 nbraticus, Amblyseius maspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 naspis yanonensis sispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus New Hebrides 2935 naspis yanonensis sispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 reatoides, Psylla reatus, Eotetranychus dalis, Hellula 9-Undecanol, acetate, on rubber septa, hai life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Michomyrmex mandibula gland secretion 4761 in Siphomyrmex mandibula gland secretion 4761 in Michomyrmex mandibula gland secretion 4761 in Michomyrmex mandibula gland secretion 4761 in Michomyrmex mandibula gland secretion 4761 in Mich	
Nymphalis antiopa on, in Wisconsin 4651 Olethreutes mysteriana on, in North America 1187 Orthotylus viridinervis on, in Canada 2069 Scolytus multistriatus on, landing time 2055 Xanthogaleruca luteola on, developmen of 538 Imus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on modevelopment of 538 Imus pumila, in Denmark 566 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Potopus) In New Hebrides 2935 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Potopus) Intracide (see Methidathion) Intracide (see Potopus) Intracides, Psylla Interacides, Psylla Interacides, Psylla	
Olethreutes mysteriana on, in North America 1187 Orthotylus viridinervis on, in Canada 2069 Scolytus multistriatus on, landing time 2055 Xanthogaleruca luteola on, developmen of 538 Imus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Vibekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Vibekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Japan 1468 parasitised by Aspidotiphagus citrinus (septimental sphenomental s	
Olethreutes mysteriana on, in North America 1187 Orthotylus viridinervis on, in Canada 2069 Scolytus multistriatus on, landing time 2055 Xanthogaleruca luteola on, developmen of 538 Ilmus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Ilmus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Ilmus glabra Ceratocystis ulmi in, in Denmark 566 Ilmus minor, Luperus leonardii on, in Ita 4103 Ilmus procera Eriosoma patchiae on, in Sweden 217 Scolytus laevis on, in Denmark 566 Ilmus minor, Luperus leonardii on, in Ita 4103 Ilmus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus pumila, Xanthogaleruca luteola on mobelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Japan 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 reatoides, Psylla reatus, Eotetranychus reatus, Eotetran	
America 1187 Orthotylus viridinervis on, in Canada 2069 Scolytus multistriatus on, landing time 2055 Xanthogaleruca luteola on, developmen of 538 Imus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associate with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scapsa, Lymantia dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 intraticus, Amblyseius naspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 inaspis yanonensis dispersal of 1468 in Japan 1352, 1468 in Japan	
Orthotylus viridinervis on, in Canada 2069 Scolytus multistriatus on, landing time 2055 Xanthogaleruca luteola on, developmen of 538 Imus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4610 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on modevelopment of 538 Imus pumila, Xanthogaleruca luteola on modevelopment of 538 Imus pumila, Xanthogaleruca luteola on modevelopment of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on modevelopment of 538 Imus pumila, Xanthogaleruca luteola on masspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 inaspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 creatoides, Psylla matus, Eotetranychus dalis, Hellula 9-Undecanol, acetate, on rubber septa, hai life of 4171 Undecanol, acetate, on rubber septa, hai life of 4171 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 in mize oil 2649 in Tatramorium termitobium mandibular gland secretion 4761 in mize oil 2649 in Termorium responses to 90 Schizaphis graminum responses to 90 Schizaphis gram	
Scolytus multistriatus on, landing time 2055 Xanthogaleruca luteola on, developmen of 538 Imus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4618 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associate with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) Intraci	
Xanthogaleruca luteola on, developmen of 538 Ilmus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Ilmus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associate with 4626 S. scolytus on, mites associated with 4626 Ilmus glabra Ceratocystis ulmi in, in Denmark 566 Ilmus glabra Ceratocystis ulmi in, in Denmark 566 Ilmus glabra Ilmus minor, Luperus leonardii on, in Ita 4103 Ilmus parvifolia, Xanthogaleruca luteola development of 538 Ilmus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Ilmus procera Briosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Ilmus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Ilmus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Ilmus procera Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Iltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Iltracide, Amblyseius Inaspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 in New Hebrides 2935 on Citrus, in New Hebrides 2935 nespis yanouensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 icatoides, Psylla icatus, Fotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in miceonomy armorium responses to 9 in Australia 5949 in Tetramorium termitobium mandibula gland secretion 4761 undecanoe, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphias, Semindalis idecimpunctata, Coccinella idecimpunctata, Coccinella idecimpunctata, Phyllotreta	2069
Xanthogaleruca luteola on, developmen of 538 Imus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 217 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Iltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Inhraticus, Amblyseius Inaspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 matodes, Psylla matus, Eotetranychus ndalis, Hellula 9-Undecanol, acetate, on rubber septa, hailife of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Miphomyrmex mandibular gland secretion 4761 in Miphomyrmex mandibular gland secretion 4761 in Siphomyrmex mandibular gland secretion 4761 in Kiphomyrmex mandibular gland secretion 4761 in Siphomyrmex mandibular gland secretion 4761 undecanone, in Occophylla longinoda mandibular-gland s	Scolytus multistriatus on, landing time
inus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 2176 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) Inbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Inbraticus, Amblyseius Inspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 naspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 Interacides, Psylla Incatus, Eotetranychus Indalis, Hellula 9-Undecanol, acetate, on rubber septa, hailife of 4171 Undecanol in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, hailife of 4171 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Keynhomyrmex mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Tetramorium responses to 1900 Schizaphis graminum responses to 1900 Schizaphis graminum responses to 1900 S	
Imus campestris Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4610 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associate with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 260 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Active and	Xanthogaleruca luteola on, developmen
Pyrochroa coccinea on, in France 108 Scolytus pygmaeus on, in Poland 4616 Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associate with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intracide (see Methidathion) mbelliferae New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 Inaspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 cratoides, Psylla Interamorium termitobium mandibular gland secretion 4761 Undecanol, acetate, on rubber septa, hai life of 4171 Undecanol, in Oecophylla longinoda venore 48 Undecanol, acetate, on rubber septa, hai life of 4171 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 98 decimpunctata, Semiadalis in decimpunctata, Phyllotreta	
Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 2176 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 inbraticus, Amblyseius naspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 naspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 netoides, Psylla neatus, Eotetranychus dialis, Hellula 9-Undecadien-2-one, 6,10-dimethyl-(E)-in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 i	Imus campestris
Imus carpinifolia Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 2176 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 inbraticus, Amblyseius naspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 naspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 netoides, Psylla neatus, Eotetranychus dialis, Hellula 9-Undecadien-2-one, 6,10-dimethyl-(E)-in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 i	Scolving pyamaeus on in Poland 4616
Eriosoma anncharlotteae on, damage caused by 2170 Scolytus multistriatus on, mites associae with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus glabra Ceratocystis ulmi in, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 nbraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 naspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 natoides, Psylla neatus, Fotetranychus dalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in maize oil 2649 in Tetramorium termitobium gland secretion 4761 in maize oil 2649 in Tetramorium termitobium gland secretion 4761 in maize oil 2649 in Tetramorium termitobium gland secretion 4761 in maize oil 2649 in Tetramorium termitobium gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 98 decimpusculatus, Semiadalia decimpusculatus, Semiadalia decimpusculatus, Semiadalia decimpusculatus, Semiadalia, Argyope dulata, Argyope dulata, Phyllotreta	Imus carninifolia
caused by 2170 Scolytus multistriatus on, mites associat with 4626 S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 217 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on musceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) Inbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Inhraticus, Amblyseius Inaspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 testoides, Psylla tectus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl-(E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanol, acetate, on rubber septa, hailife of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Scoliaphia secretion 4761 in Scoliaphia secretion 46, 47 59-Undecanone, in Occophylla longinoda mandibular-gland secretion 4761 in Siphomyrmex mandibular gland secretion 4761 in Siphomyrmex mandibular gland secretion 4761 in Siphomyrmex mandibular gland secretion 4761 undecanone, in Occophylla longinoda mandibular-gland secretion 46, 47 59-Undecatiene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphia spaminum responses to statelimpunctular, Argyope dulata, Arg	Eriosoma anncharlotteae on. damage
with 4626 S. scolytus on, mites associated with 4626 Ilmus glabra Ceratocystis ulmi in, in Denmark 566 Ilmus minor, Luperus leonardii on, in Ita 4103 Ilmus parvifolia, Xanthogaleruca luteola development of 538 Ilmus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Iltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 matus, Fotetranychus malis, Hellula p-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 undecanol, acetate, on rubber septa, ha life of 4171 undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Viphomyrmex mandibula gland secretion 4761 undecanone, in Viphomyrmex mandibula gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Xiphomyrmex mandibula gland secretion 4761 undecanone, in Xiphomyrmex mandibula	caused by 2170
S. scolytus on, mites associated with 4626 Imus glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 217 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Iltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan inspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 matoides, Psylla matus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Xiphomyrmex mandi	Scolytus multistriatus on, mites associat
Huse glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 2178 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan inspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 naspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 tectoides, Psylla neatus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in decane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Aighomyrmex mandibular gland secretion 4761 in Agentalis, Argyope dulata, Argyope dulata, Argyope dulata, Argyope dulata, Phyllotreta	with 4626
Imus glabra Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 217/ Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 neatus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Viphomyrmex mandibula gland secretion 4761 Undecanone, in Niphomyrmex mandibula gland secretion 4761 Und	S. scolytus on, mites associated with
Ceratocystis ulmi in, in Denmark 566 Eriosoma patchiae on, in Sweden 2176 Scolytus laevis on, in Denmark 566 Imus minor, Luperus leonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 Inaspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 inatus, Eotetranychus in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 inatus, Eotetranychus in Japan 1468 pundecadien-2-one, 6,10-dimethyl-(E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Tecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Tecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Tecophylla longinoda mandibular-	mus alahra
Imus minor, Luperus teonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 intraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 insapis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 intratious, Fotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibuar gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to sindecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstuata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phylloreta	Ceratocystis ulmi in in Denmark 566
Imus minor, Luperus teonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 intraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 insapis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 intratious, Fotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibuar gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to sindecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstuata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phylloreta	Eriosoma patchiae on, in Sweden 2170
Imus minor, Luperus teonardii on, in Ita 4103 Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 intraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 insapis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 intratious, Fotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibuar gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to sindecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstata, Semiadalia indecimonstuata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phylloreta	Scolytus laevis on, in Denmark 566
Imus parvifolia, Xanthogaleruca luteola development of 538 Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, development of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Inracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Inracitus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 on Citrus, in New Hebrides 2935 reyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 netoides, Psylla netus, Fotetranychus dalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl-(E)-in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanol, acetate, on rubber septa, hai life of 4171 Undecanol, in Mizhomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Tetramorium responses to statecimpunctata, Semiadalia decimpunctata, Phyllotreta	<i>imus minor, Luperus leonardii</i> on, in Ita
development of 538 Ilmus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 inbraticus, Amblyseius naspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 inaspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 ination for the security of the sec	
Imus procera Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius maspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 matus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to sindecimpunctata, Semiadalia decimpunctata, Semiadalia decimpunctata, Semiadalia decimpunctata, Semiadalia decimpunctata, Argyope dulata, Argyope dulata, Phyllotreta	
Eriosoma anncharlotteae on, damage caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius naspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 actoides, Psylla matus, Eotetranychus malalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl-(E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 90 sidecimpunctata, Semiadalis idecimpunctata, Semiadalis idecimpunctata, Semiadalis idecimpunctata, Argyope idulata, Argyope idulata, Argyope	development of 538
caused by 2170 Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 intraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 inspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 instatoides, Psylla industria, Hellula 9-Undecandien-2-one, 6,10-dimethyle(E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 undecanol, acetate, on rubber septa, hai life of 4171 undecanol, acetate, on rubber septa, hai life of 4171 undecanol, acetate, on rubber septa, hai life of 4171 undecanol, in Cecophylla longinoda wenord 48 Undecanol, acetate, on rubber septa, hai life of 4171 undecanol, acetate, on rubber septa, hai life of 4171 undecanol, acetate, on rubber septa, hai life of 4171 undecanol, acetate, on rubber septa, hai life of 4171 undecanol, acetate, on rubber septa, hai life of 4171 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanotata, Semiadalia decimpunctata, Semiadalia decimpunctata, Semiadalia decimpunctata, Phyllotreta	Friesome annoharlottese on demage
Scolytus scolytus on, in England 1096 Xanthogaleruca luteola on, developmen of 538 Ilmus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Iltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 inbraticus, Amblyseius inaspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 on Citrus, in Japan 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 inatoides, Psylla icatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in Cecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Occophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 Schizaphis graminum a secretion 46, 47 Schizaphis graminum a secretion 40 Schizaphis graminum a secre	caused by 2170
Xanthogaleruca luteola on, developmen of 538 Imus pumila, Xanthogaleruca luteola on development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius naspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 acatoides, Psylla acatus, Eotetranychus in almond hulls 6453 in maize oil 2649 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecantiene, 2,6,10-trimethyl-(E)-dispensers for 97 Schizaphis graminum responses to statecimpunctata, Semiadalis decimpunctata, Semiadalis in decimpunctata, Semiadalis adecimpunctata, Argyope dulata, Argyope dulata, Phyllotreta	Scolvtus scolvtus on, in England 1096
of 538 Ilmus pumila, Xanthogaleruca luteola on development of 538 Ilmus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Iltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 Intraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 inspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 incatoides, Psylla incatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanol, acetate, on rubber septa, hai life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 Undecanone, in Niphomyrmex mandibula gland secretion 4761 Undecanone, in Niphomyrmex mandibular gland secretion 4761 Undecanone, in Niphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Niphomyrmex mandibular gland secretion 4761 Undecanone, in Niphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Niphomyrmex mandibular gland secretion 4761 Undecanone, in New Medicalia secretion 4761 Undecanone, in Niphomyrmex mandibular gland	
development of 538 Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius Inaspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatoides, Psylla acatus, Eotetranychus adalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl-(E)-in almond hulls 6453 in maize oil 2649 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 in Kiphomyrmex mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Xiphomyrmex mandibular gland	of 538
Imus scabra, Lymantria dispar on, susceptibility to Bacillus thuringiensis 4653 Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 mspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatoides, Psylla matus, Eotetranychus in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatoides, Psylla matus, Eotetranychus in Japan 1468 pundecadien-2-one, 6,10-dimethyl-(E)- in almond hulls 6453 in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 undecanol, acetate, on rubber septa, hai life of 4171 undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Viphomyrmex mandibular gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 undecanone, in Aighomyrmex mandibular gland secretion 4761 undecan	lmus pumila, Xanthogaleruca luteola on
susceptibility to Bacillus thuringiensis 4653 ltracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 nbraticus, Amblyseius naspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 neatus, Eotetranychus in almond hulls 6453 in maize oil 2649 in almond hulls 6453 in maize oil 2649 in decane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Niphomyrmex mandibul gland secretion 4761 Undecanone, in Niphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 Sch	development of 538
Actional (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius maspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 matus, Eotetranychus malais, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 mdecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Viphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to statectimpunctata, Semiadalia idecimpunctata, Semiadalia idecimpunctata, Semiadalia idecimpunctata, Semiadalia idecimpunctata, Semiadalia idecimpunctata, Agyope idulata, Argyope idulata, Argyope idulata, Argyope	Imus scabra, Lymantria dispar on,
Itracide (see Methidathion) mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 mastised by, Aspidiotiphagus citrinus, Kyushu 1352 matus, Eotetranychus maistis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 mdecane, in Oecophylla longinoda venor 48 undecanol, acetate, on rubber septa, hai life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 undecanone, in Niphomyrmex mandibul gland secretion 4761 undecanone, in Xiphomyrmex mandibul gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to sindecimnostata, Semiadalia medecimpustulatus, Myllocerus nden (see Propoxur) mdersowing, arthropods as affected by 3433 adulata, Argyope mdulata, Argyope mdulata, Phyllotreta	
mbelliferae Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 inbraticus, Amblyseius inaspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 inaspis yanouensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 inatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to secretion underimontata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Coccinella indecimpunctata, Semiadalia indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	
Agromyzidae on, diversity of 270 Sphecidae on, in Uzbekistan 3337 mbraticus, Amblyseius maspis citri control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 matus, Eotetranychus malalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 mdecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 undecanone, in Xiphomyrmex mandibul gland secretion 4761 undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to secretion state, Semiadalia idecimpunctata, Semiadalia idecimpunctata, Semiadalia idecimpunctata, Semiadalia idecimpunctata, Argyope idulata, Argyope idulata, Argyope idulata, Phyllotreta	
mbraticus, Amblyseius maspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 catoides, Psylla ncatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in decane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibula gland secretion 4761 Undecanone, in Niphomyrmex mandibula gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to section punctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Coccinella indecimpunctata, Semiadalia indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	Agromyzidae on, diversity of 270
mbraticus, Amblyseius maspis citri control of, biological 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 catoides, Psylla ncatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in decane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibula gland secretion 4761 Undecanone, in Niphomyrmex mandibula gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to section punctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Coccinella indecimpunctata, Semiadalia indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	Sphecidae on, in Uzbekistan 3337
control of, biological 5949 in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 ccatoides, Psylla ncatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in decane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, hallife of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to statecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Semiadalia indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	
in Australia 5949 in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 maspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 interatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in maize oil 2649 in decane, in Oecophylla longinoda venor 48 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to secretion support of the composition of the compositio	naspis citri
in New Hebrides 2935 on Citrus, in New Hebrides 2935 preyed on by, Sukunahikona prapawan, New Hebrides 2935 naspis yanonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidotiphagus citrinus, Kyushu 1352 neatus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 Schizaphis graminum res	control of, biological 5949
New Hebrides 2933 maspis yamonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 cactoides, Psylla mateus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to statecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Asemiadalia indecimpunctata, Asemiadalia indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	in New Hebridge 2025
New Hebrides 2933 maspis yamonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 cactoides, Psylla mateus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to statecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Asemiadalia indecimpunctata, Asemiadalia indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	on Citrus in New Hebrides 2935
New Hebrides 2933 maspis yamonensis dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 cactoides, Psylla mateus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to statecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Asemiadalia indecimpunctata, Asemiadalia indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	preved on by, Sukunahikona prapawan.
dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to sindecimpostata, Semiadalis indecimpunctata, Coccinella indecimpunctata, Coccinella indecimpunctata, Amyllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Phyllotreta	New Henrides 2933
dispersal of 1468 in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to sindecimpostata, Semiadalis indecimpunctata, Coccinella indecimpunctata, Coccinella indecimpunctata, Amyllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Phyllotreta	naspis yanonensis
parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecane, in Oecophylla longinoda venor 48 life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to state in the company of th	dispersal of 1468
parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecane, in Oecophylla longinoda venor 48 life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to state in the company of th	1000
ncatoides, Psylla ncatus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to indecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Nyllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468
ncatoides, Psylla ncatus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to indecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Nyllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468
incatus, Eotetranychus indalis, Hellula 19-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venor 48 Undecane, acetate, on rubber septa, hai life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibular gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 55-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to statecimpustata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Coccinella indecimpunctata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus,
ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 statecimpunctata, Semiadalia idecimpustulatus, Myllocerus nden (see Propoxur) ndersowing, arthropods as affected by 3433 adulata, Argyope idulata, Argyope idulata, Argyope idulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352
9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, hai life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 Schizaphis graminum responses to 9 decimpunctata, Semiadalia ndecimpunctata, Coccinella udecimpunctata, Argyope ndulata, Argyope ndulata, Argyope ndulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatoides, Psylla
in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to statecimpunctata, Semiadalia idecimpustulatus, Myllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Argyope indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla icatus, Eotetranychus
in maize oil 2649 decane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibu gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 Schizaphis graminum responses to 9 decimpunctata, Semiadalia ndecimpunctata, Coccinella decimpunctata, Argyope ndulata, Argyope ndulata, Argyope ndulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus idalis, Hellula
ndecane, in Oecophylla longinoda venor 48 Undecanol, acetate, on rubber septa, ha life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to secretion punctata, Semiadalia indecimpunctata, Semiadalia indecimpunctata, Nyllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatoides, Psylla acatus, Eotetranychus adalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)-
48 Undecanol, acetate, on rubber septa, hallife of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 statecimpunctata, Semiadalia indecimpustulatus, Myllocerus indecimpustulatus, Myllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 ncatus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- in almond hulls 6453
Undecanol, acetate, on rubber septa, hai life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibulate gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibugland secretion 4761 Undecanone, in Oecophylla longinodate mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethylesself, 2,6,10-tr	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus adalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649
Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 97 schizaphis graminum responses to 97 schizaphis graminum responses to 98 idecimpunctata, Semiadalia idecimpustulatus, Myllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 idulata, Argyope idulata, Argyope idulata, Argyope	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E) in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon
Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 97 schizaphis graminum responses to 97 schizaphis graminum responses to 98 idecimpunctata, Semiadalia idecimpustulatus, Myllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 idulata, Argyope idulata, Argyope idulata, Argyope	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 necatus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon
in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibugland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 decimpostata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Willocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 adulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 necatus, Eotetranychus ndalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon
gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibu gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 93 schizaphis graminum responses to 93 schizaphis graminum responses to 94 schizaphis graminum responses to 94 schizaphis graminum responses to 94 schizaphis graminum responses to 95 schizaphis graminum responses	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatus, Eotetranychus adalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol
in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 97 schizaphis graminum responses to 98 decimpunctata, Semiadalia adecimpustulatus, Myllocerus adecimpustulatus, Myllocerus anden (see Propoxur) andersowing, arthropods as affected by 3433 adulata, Argyope adulata, Argyope adulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 icatoides, Psylla ncatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649
secretion 4761 Undecanone, in Xiphomyrmex mandibugland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to state in the common state, Semiadalia indecimpunctata, Coccinella indecimpunctata, Wyllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 adulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E) in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula
Undecanone, in Xiphomyrmex mandibugland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl-(E)- dispensers for 97 Schizaphis graminum responses to state indecimotata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Myllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatoides, Psylla acatus, Eotetranychus adalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 andecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761
gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to decimputata, Semiadalia decimpustulatus, Myllocerus nden (see Propoxur) ndersowing, arthropods as affected by 3433 adulata, Argyope dulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 actoides, Psylla actoides, Psylla actoides, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland
Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl-(E)-dispensers for 97 Schizaphis graminum responses to statecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpustulatus, Myllocerus nden (see Propoxur) ndersowing, arthropods as affected by 3433 adulata, Argyope indulata, Argyope indulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E) in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761
mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to state indecimpotata, Semiadalia adecimpunctata, Coccinella adecimpustulatus, Myllocerus nden (see Propoxur) ndersowing, arthropods as affected by 3433 adulata, Argyope adulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 cactoides, Psylla catus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul
(E)- dispensers for 97 Schizaphis graminum responses to 9 decimnotata, Semiadalia decimpunctata, Coccinella decimpustulatus, Myllocerus nden (see Propoxur) ndersowing, arthropods as affected by 3433 dullata, Argyope dullata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibu gland secretion 4761 Undecanone, in Oecophylla longinoda
dispensers for 97 Schizaphis graminum responses to state indecimnotata, Semiadalia adecimpunctata, Coccinella adecimpustulatus, Myllocerus nden (see Propoxur) ndersowing, arthropods as affected by 3433 adulata, Argyope ndulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibu gland secretion 4761 Undecanone, in Oecophylla longinoda
Schizaphis graminum responses to statecimnotata, Semiadalia adecimpunctata, Coccinella adecimpunctulatus, Myllocerus anden (see Propoxur) aden (see Propoxur) aden (see Propoxur) aday at affected by adulata, Argyope adulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 acatus, Eotetranychus adalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl-
ndecimnotata, Semiadalia idecimpunctata, Coccinella idecimpustulatus, Myllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 idulata, Argyope idulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)-
ndecimpunctata, Coccinella addecimpustulatus, Myllocerus anden (see Propoxur) andersowing, arthropods as affected by 3433 adulata, Argyope adulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus indalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E) in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 476, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97
ndecimpustulatus, Myllocerus nden (see Propoxur) ndersowing, arthropods as affected by 3433 ndulata, Argyope ndulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus dalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to
nden (see Propoxur) ndersowing, arthropods as affected by 3433 adulata, Argyope ndulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 5 indecimnotata, Semiadalia
ndersowing, arthropods as affected by 3433 adulata, Argyope adulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 97 schizaphis graminum responses to 97 schizaphis graminum responses to 98 indecimpunctata, Semiadalia indecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Myllocerus
ndulata, Argyope ndulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoldes, Psylla catoldes, Psylla catoldes, Psylla catoldes, Psylla catoldes, Psylla catoldes, Psylla catols, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 ndecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 9 stelecimpurctata, Coccinella indecimpustulatus, Myllocerus indecimpustulatus, Myllocerus indecimpustulatus, Myllocerus indecimpustulatus, Myllocerus
idulata, Phyllotreta	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 catoides, Psylla catus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 Undecanone, in Xiphomyrmex mandibula secretion 4761 Undecanone, in Niphomyrmex mandibula rgland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 59-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to secretion totate, Semiadalia indecimpunctata, Semiadalia indecimpunctata, Coccinella indecimpunctata, Allocerus inden (see Propoxur) indersowing, arthropods as affected by
nica Hevdenia	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 cactoides, Psylla catus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 indecane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 97 Schizaphis graminum responses to 97 Schizaphis graminum responses to 98 decimpustulatus, Myllocerus inderimpustulatus, Myllocerus inderimpustulatus, Myllocerus inderimpustulatus, Myllocerus inderimpustulatus, athropods as affected by 3433
	in Japan 1352, 1468 on Citrus, in Japan 1468 parasitised by, Aspidiotiphagus citrinus, Kyushu 1352 icatoides, Psylla icatus, Eotetranychus idalis, Hellula 9-Undecadien-2-one, 6,10-dimethyl- (E)- in almond hulls 6453 in maize oil 2649 in decane, in Oecophylla longinoda venon 48 Undecanol, acetate, on rubber septa, hal life of 4171 Undecanol in maize oil 2649 in Tetramorium termitobium mandibula gland secretion 4761 in Xiphomyrmex mandibular gland secretion 4761 Undecanone, in Xiphomyrmex mandibul gland secretion 4761 Undecanone, in Oecophylla longinoda mandibular-gland secretion 46, 47 5,9-Undecatriene, 2,6,10-trimethyl- (E)- dispensers for 97 Schizaphis graminum responses to 97 schizaphis graminum responses to 97 schizaphis graminum responses to 98 indecimpunctata, Semiadalis indecimpunctata, Coccinella indecimpunctata, Vyllocerus inden (see Propoxur) indersowing, arthropods as affected by 3433 indulata, Argyope

unicolor, Attagenus

```
unicolorata, Agathis
unifasciatus, Cletus
Unikaryon minutum, in, Dendroctonus frontalis, in Florida 2578
Union of Soviet Socialist Republics
   Acanthococcus spp. in, natural enemies of
         1182
   Acantholyda pinivora in, on Pinus 5766 acaricide use in 2135
Acrididae in 2799, 4821, 4956
Acridoidea in, natural enemies of 1123
  Acridoidea in, natural enemies of Adelphocoris lineolatus in on cotton 5714 on lucerne 174

Ageniaspis spp. in 1185 agricultural entomology in 3170 information sources for 3171
   Agrotis segetum in, natural enemies of
   Amara spp. in 149
Anacanthotermes ahngerianus in
                                                           1357
   Apamea sordens in, on wheat 296
   Aphidoidea in 801
natural enemies of 2342
on fruit trees 2437
       on grain crops 3376
   Apis mellifera in
       mite enemies of 602
       natural enemies of 3863
   apple in
      insect pests of 380
pest control on 2945, 2953, 3469
   Aradus cinnamomeus in, natural enemies of 5767
   arthropods in, common names of 691

Artogeia rapae in, on cabbage 5838,
5839
   Asilidae in 153
   Auchenorrhyncha in 2759
   Autographa gamma in, on cabbage 5839 biological control in 626
   Birsteinius krivolutskyi in, on Betula 7
   Blattaria in 139
   Braconidae in 3339, 5392, 5394, 5400
   Brevicoryne brassicae in, on cabbage 6504
   Bromus racemosus in, insect pests of
         1418
   Bruchus pisorum in
       natural enemies of 3524
       on pea 3523
   Bucculatrix crataegi in, natural enemies of
         5598
   Byturus tomentosus in, on raspberry 1442
   Caliroa cerasi in 5396
   Calophya nigra in, on Phellodendron
147
   147
Carabidae in 150
Cavariella bunii in, on Bunium 2663
Ceratitis capitata in 5595
Chalcidoidea in 5395
Chloropidae in, on wheat 2360
Chorthippus spp. in 4957
C. biguttulus in 231
C. mollis in 231
C. mollis in 231
   Chrysobothris affinis in 1249
Chrysomelidae in 151, 3782
   Chrysomelinae in 2753
Cicadina in 2346
   Cinara juniperi in, natural enemies of
         1177
   Coccoidea in 146
Coccus hesperidum in
       on Citrus 2453
  on Citrus 24-53
on pot plants 2977
Coleophora spp. in, on Betula 6606
Coleoptera in 2791
on fruit trees 5064
conifers in, insect pests of 3059
cotton in, pest control on 3046
Craspedolepta spp. in, on Artemisia 147
Curculionidae in 152
Curlia molecta in on peach 2966
   Cydia molesta in, on peach 2966
C. pomonella in, on apple 381, 3469
Dasineura tetensi in, on black currant
   Dendroctonus micans in 1604
      natural enemies of 2616, 5767 on Pinus 1599
   Dendrolimus sibiricus in 5791
       natural enemies of 1123
```

unicolor, Microtermes

ed

on,

in

in

```
Union of Soviet Socialist Republics contd.
   Dendrolimus contd.
    D. superans in 5765
   Dermaptera in 139
Diprion pini in 5796
   Diuraphis noxia in, on wheat 1920, 3375
    Dysaphis anthrisci in, natural enemies of
         1765
    D. seselii in, on Crataegus 5182
    Edwardsiana acericola in
       on Acer 3604
on Salix 3604
    E. iranicola in, on Platanus 6607
   Elateridae in 11
Encyrtidae in 5598, 6019
    Epilachna chrysomelina in, on cucurbits
         6507
    Eriococcus spp. in, natural enemies of
         1182
    Eriophyoidea in 1448
    Eurydema oleraceum in, on cabbage
         6504
   Eurygaster integriceps in
natural enemies of 3264, 5112
on grain crops 1313, 2120, 2121, 3360
on wheat 5528, 6694
    forage crops in, pest control on 351
    Forda hirsuta in, on Pistacia vera
   Forda hirshia in, on Pistacia vera 340 forest trees in, pest control on 5196

Formica pratensis in 2802

F. rufa in 2256

Formicidae in 2801, 5393

fruit trees in, arthropod pests of 1973

Galerucella nymphaeae in, natural enemies of 1343
   Gelechia hippophaella in, natural enemies of 1322
   Geometridae in, on apple 1452 gourd in, pests of 3513
   grain crops in, insect pests of 2867
Gryllidae in 13
Grylloidea in 4735
    Heliothis armigera in
       natural enemies of
   on cotton 5714
on maize 3378
Heteroptera in 148
    Hylobius abietis in, natural enemies of
         3080
   Hyloicus laricis in, on Larix 3081
Hymenoptera in 5386
   Hypera postica in, on lucerne 174
Ichneumonidae in 158, 5388, 5389, 5390,
   insect pests in, forecasting outbreaks of 5963
   insecticide testing in 5255 insecticide use in 2121, 2123, 2135 insects in, common names of 691
   Ips typographus in, natural enemies of 2616, 5395, 5397
Isoptera in 118
       book 1897
     Labidura riparia in
   Lepidoptera in 2752
in deserts 1304
on Betula 4099
       on fruit trees 2946
    Lepidosaphes malicola in
   natural enemies of 2949
on fruit trees 2948
Leptinotarsa decemlineata in, on potato
1527, 3021, 3022, 3532, 6539
Leucoma salicis in, natural enemies of
         1123
   Lycia hirtaria in, on apple 2957
Lymantria dispar in 1587
on Quercus 3098
Mamestra brassicae in
      natural enemies of 5096
on cabbage 1643, 5838, 5839
Mayetiola destructor in, on wheat 2360
    Melolontha hippocastani in, on Quercus
         5766
   Miridae in, on wheat 3374
mites in 5803
Nabidae in, natural enemies of 621
    Neodiprion sertifer in
       natural enemies of 2564
   on Pinus 1643
Neuroptera in 5484
Noctuidae in 1188, 5417, 5419
```

```
Union of Soviet Socialist Republics contd.
    Operophtera fagata in, natural enemies of 5391
    Oppiella baburini in, on Abies 7 orchards in, parasitic insects in 3466
    Orgyia gonostigma in, on fruit trees
          3464
    Oribatei in 1306
    ornamental shrubs in, insect pests of
          1556
    Orobanche ramosa in, Phytomyza orobanchiae for biological control of
          1363
    Orthoptera in 139, 230
Orthopteroidea in 2755
Oscinella frit in
        on barley 3361
on oats 3361
        on wheat 670
    Ostrinia nubilalis in 5543
        on hemp 2736
on maize 2736, 3378
    Oulema lichenis in, on grain crops 1386
    O. melanopus in
   on grain crops 1386
on wheat 2888
Pachypsylloides spp. in, natural enemies
of 280
    Palomena viridissima in, natural enemies
         of 621
    Parthenolecanium takachihoi in, natural
   enemies of 12
pear in, pest control on 2945
Peliococcus mesasiaticus in, natural
enemies of 4981
    Pemphigus fuscicornis in
on Chenopodium 2022
on sugar-beet 2022
   Pentatomidae in, on wheat 3374
Perihylobius sogdianus in 2173
pest control in 2118, 3184, 5249, 5962
   pook 3696
pest forecasting in 3187
pesticide use in 2120
Phragmatobia fuliginosa in, natural
enemies of 2106
Phyllocoptes gracilis in, on raspberry
3455
       book 3696
    Phyllonorycter platani in, on Platanus
         6607
   Phytophaga in 5387
Phytoseiidae in 3848
Pinus sylvestris in, insect pests of 582
plant protection in 6689, 6693
Plodia interpunctella in, in stored
products 3128
    Plutella xylostella in, on cabbage
Porphyrophora hamelii in 2847
    potato in
        pest control on 1526
    pests of 3513
predatory insects in 1345
    Pristiphora abietina in, natural enemies of 5390
    Pseudococcidae in, natural enemies of 2172
   Pseudococcus parvulus in, natural enemies of 1182
Psylla spp. in 2760
Pteromalidae in 2664
Pyralidae in 155
   Pytandae in 155
Quadraspidiotus perniciosus in 2955
natural enemies of 4980
Rhinophoridae in 3304
Rhopalosiphum padi in, on wheat 1920
Sarcophagidae in 154, 3304
Scarabaeidae in 5577
Schizaphia graenium in
    Schizaphis graminum in on rice 5545
        on wheat 1920
    shrubs in, insect pests of 6585
   Sitobion avenae in, on wheat 1920
Sitona callosus in 1763
S. correctus in 1763
Slavum lentiscoides in, on Pistacia vera
3460
   Sphecidae in 3337
squash in, pests of 3513
stored products in, insect pests imported
in 1607
    street trees in, insect pests of 5183
Tachinidae in 3304
```

Tarsonemidae in, on Poaceae 5019

```
Union of Soviet Socialist Republics contd.
      Tenthredinoidea in, on Betula 6605
Tetanocentria theae in, on tea 5286
      Tetranychus spp. in, on cotton 5714
Tineidae in 141
      tobacco in, insect pests of 1554
      Tomicus piniperda in, natural enemies of
             5397
      Tortricidae in 161
tree-trunk pests in, natural enemies of
             580
      trees in, insect pests of 6585
Trigonotylus coelestialium in, on wheat
      Tydeidae in 2269
Viteus vitifoliae in, on grapevine 5058,
5587, 5588
      Xyloterus lineatus in, natural enemies of
             5399
Yponomeuta spp. in 1600
Y. malinellus in, on apple 381
Zabrus tenebrioides in, on wheat
unipuncta, Cirphis (see Mythimna
unipuncta)
unipuncta, Mythimna (Cirphis; Pseudaletia)
unipuncta, Pseudaletia (see Mythimna
unipuncta) unispina, Gryllotalpa
United Kingdom
Abacarus hystrix in, on Lolium 3441
Acalitus essigi in, on blackberry 4547
Acari in, in industrial reclamation sites
             3424
      Acronicta spp. in, natural enemies of
             4100
     agricultural entomology funded by 6002 agricultural entomology in 1757, 2652, 4175, 4176, 4184, 4578, 4721, 5069,
              6501, 6736, 6737
      Agriotes spp. in
     Agriotes spp. in
on entomogenous fungi 3162
on maize 218
Altica spp. in 1768
Aphididae in, on barley 3433
Aphidoidea in 4404
Aphis fabae in, on sugar-beet 5685
A. pomi in, on apple 5604
Apion vorax in, on leguminous crops
      Araneae in, natural enemies of 4996
     arthropod pests in, common and scientific names of 5447
     Artogeia rapae in 3770
Auchenorrhyncha in, on Holcus 2918
Aulacorthum solani in, on potato 2104
Biston betularia in 3756, 6119
      Brachycaudus helichrysi in on Chrysanthemum 3058
     on Prunus 5611
Brevicoryne brassicae in
           natural enemies of 115
           on brussels sprouts 1758, 1759
      on crucifers 5093
Bryobia spp. in 1451
      Byturus tomentosus in, on raspberry 5055
     Cevariella aegopodii in, on carrot 5110
Cecidophyopsis ribis in 5056
on black currant 4548
Cephalcia lariciphila in, natural enemies
of 5159, 5752
Centorbyochus assimilis in, on rape 455
     Ceutorhynchus assimilis in, on rape 4573
C. pallidactylus in, on rape 4573
chalk quarries in, soil microarthropods in
3426
      Chorthippus brunneus in 777
Chrysolina spp. in 708
Cinara pilicornis in, on Picea 5147
      clover in, arthropod pests of 5575
Coccinellidae in 4998
      Collembola in, in industrial reclamation sites 3424
    sites 3424
Contarinia pisi in, on pea 1508
C. pyrivora in, on pear 5066
Cossonus linearis in, on Salix 3093
C. parallelepipedus in, on Salix 3093
C. parallelepipedus in, on Salix 3093
Cryphalus abietis in 3091
Cryptococcus fagisuga in, on Fagus 33
cucumber in, arthropod pests of 6508
Dasineura brassicae in, on rape 4573
D. mali in, on apple 5066
D. pyri in, on pear 5066
Delia antiqua in, on leek 5699
```

```
United Kingdom contd.
      Delia contd.
       D. brassicae in
           on radish 421, 2006, 5097
on swede 1759
       D. coarctata in, on wheat 302
      Dermestes lardarius in, in poultry houses
              1614
     D. maculatus in, in poultry houses 1614
Drosophila spp. in 597, 598
Dysaphis devecta in, on apple 5604
D. plantaginea in, on apple 5604
Edwardsiana rosae in 191
Elatobium abietinum in, on Picea 3063,
               5743
      entomological research in 3242

Eucallipterus tiliae in, on Tilia 5156

Eucoilidae in 4736
       Eulophidae in 6013
      Eupteryx spp. in
natural enemies of 4484
on Urtica 4484
     on Urtica 4484
foodstuffs in, arthropod pests of 5801
forest entomology in 6602
Formica lugubris in 119
Gastropacha quercifolia in 1817
Gastrophysa viridula in, on Rumex 1906
Geotrupes spiniger in 80
grain aphids in, natural enemies of 5025
grain crops in, insect pests of 6350
grasses in, arthropod pests of 5575
Haplodiplosis marginata in, on grain crops 6354
Harnalus rufines in, in strawberry fields
      Harpalus rufipes in, in strawberry fields 5054
      Hemiptera in, in grassland 3434
Heterocera in 163
      Heteroptera in, in grassland 3443
horticultural entomology in 2654
Hyalopterus pruni in, on Prunus 5611
Hylotrupes bajulus in, in structural wood
               3138
       Ichneumonidae in 4211
      Isopoda in, in dune grassland 3429, 3430
Javesella dubia in, natural enemies of
2333
     Kakothrips pisivorus in, on pea 5670
Lepidoptera in 2789
Leptinotarsa decemlineata in 4851
Lindbergina aurovittata in 191
Lonchoptera lutea in, in grain fields 2887
      Lymantria monacha in, on Quercus 2060
Macrosiphoniella sanborni in, on
Chrysanthemum 3058
Macrosiphum euphorbiae in, on potato
2104
         Macrosteles sexnotatus in, on oats 5304
      Megaselia halterata in, on mushroom
412
      Meligethes aeneus in, on rape 4573
Metopolophium dirhodum in 2330
            natural enemies of 5519
on grain crops 1388
      M. festucae in, natural enemies of 5519
Microlepidoptera in 4307
Myrmica spp. in, in Calluna moorland
     Myzus persicae in on Chrysanthemum 3058 on potato 219, 2104, 5690 on sugar-beet 5685
Narcissus in, arthropod pests of 5139
Nematus ribesii in 6060
Noctua pronuba in 2223
Noctuidae in, on leek 5699
Odontopera bidentata in 3756
Oscinella frit in on grain crops 1369
           on grain crops 1
on grasses 1369
on Lolium 3442
on maize 218
       Pandemis cerasana in, natural enemies of
     3071
Panolis flammea in, on Pinus 3069
pesticide use in 6697
Petrobia latens in 1451
Phoridae in, in raspberry fields 4997
Phorodon humuli in
on hop 1912
on Prunus 5611
Phycitinae in, in imported stored products
3658
               3071
```

U

adject index		1133
Inited Kingdom contd.	United States of America contd.	Urophora affinis contd.
Phyllonorycter spp. in, natural enemies of 4622, 4623	maize in, pests of 6367 mites in, book 6006	on Centaurea maculosa contd. and biological control using contd.
P. quinnatus in, natural enemies of 6013	Nepticulidae in 2168	in Quebec 4483
Pieris brassicae in 1856, 3770 Polyphagotarsonemus latus in, on	plant pests intercepted in 5966 plant protection in 622	on Cirsium arvense, and biological control
Capsicum 5117	Platypodidae in 2555	using, in Quebec 4483
Psila rosae in, on carrot 3015, 5111 Psylla mali in, on apple 5067	Staphylinidae in, book 2668 ununguis, Oligonychus	on thistle, and biological control using 5505
P. pyricola in, on pear 5067	Upper Volta	Urophora jaceana
Psylliodes chrysocephalus in, on rape 2000	Acrididae in 6284 Catantops haemorrhoidalis in 5455	in Turkey 1311 on sesame, in Turkey 1311
Psylloidea in 6029 Pteromalidae in 4094	Dicraeus pennisetivora in, on Pennisetum	Urophora quadrifasciata
Ptinus sexpunctatus in, in dwellings 2090	americanum 2899 Eldana saccharina in, natural enemies of	in Turkey 1311 on <i>Centaurea</i> , and biological control
Resseliella oculiperda in	693 locust control in 5899	using, in British Columbia 6342
on apple 5066 on pear 5066	maize in, insect pests of 693	on Centaurea maculosa, and biological control using, in Quebec 4483
R. theobaldi in, on raspberry 940 Rhopalocera in 1856	Oedaleus senegalensis in 5903 Uraniidae, taxonomy of 5295	on lucerne, in Turkey 1311
Rhopalosiphoninus staphyleae in, on	Urban areas	Urophora stylata in Turkey 1311
sugar-beet 5685 Rhopalosiphum insertum in, on apple	Aphidoidea in, in West Germany 4300 Araneae in, in West Germany 2745	on Cirsium vulgare, and biological control
5604 R. padi in	Carabidae in, in West Germany 2745 Elateridae in, in Poland 802	using, in Quebec 4483 on thistle, and biological control using
natural enemies of 5519	gall-forming arthropods in, in West	5505
on grain crops 1388 on Prunus padus 5384	Germany 2746 leaf miners in, in West Germany 2746	on Xanthium spinosum, in Turkey 1311 Urophorus humeralis
Rhyacionia duplana in	Tilia in, insect communities on 5759	in Libya 358, 2368
natural enemies of 5157 on Pinus 5157	Urbanization ant communities as affected by 124	on date palm, in Libya 358 on maize, in Libya 358, 2368
Rhynchaenus fagi in, on Fagus 1574	ants as affected by 127, 133	Uroplata
Saperda populnea in natural enemies of 5208	wasps as affected by 131 Urea	food-plant specificity in 1907
on Fraxinus 5208 Scathophaga stercoraria in, natural	in Antheraea mylitta eggs, developmental changes in 4473	on Lantana camara, and biological control using, in Australia 1907
enemies of 3162	in Bombyx mori urine 6068	on Lantana hispida, development of 1907
Sciaridae in, on mushroom 5091 Scolytus spp. in, mites associated with	in <i>Spodoptera mauritia</i> , excretion of 3271	on Lantana montevidensis, not developing
4626	Urea, (4-chlorophenyl)- in cotton, diflubenzuron metabolite 3545	1907 on <i>Lantana trifolia</i> , development of 1907
S. scolytus in natural enemies of 3095	in soil, diflubenzuron product 3545	Uroplata bilineata 1907
on <i>Ulmus</i> 531, 1096 Scydmaenidae in 4732	Urea, N,N-dimethyl-N'-[3- (trifluoromethyl)phenyl]- (see	Uroplata girardi, on Lantana camara, and biological control using, in Queensland
Silvanus bidentatus in, on Fagus 3092	Fluometuron)	5498
Sitobion avenae in natural enemies of 5519	Urea, (2,5-dioxo-4-imidazolidinyl)- (allantoin)	Urostylis punctigera in India 703
on grain crops 1388 S. fragariae in	attractant for, Neoaplectana carpocapsae	parasitised by, Manineura pentatomivora, in India 703
natural enemies of 5519	1619	urozonus, Eupelmus
on grain crops 1388 Sitona spp. in, on leguminous crops 425	Urentius sentis, on eggplant, damage caused by 1537	Urtica dioica, Eupteryx spp. on, in Wales 4484
S. lineatus in, on Vicia faba 6509 Steneotarsonemus laticeps in, on Narcissus	Urethane polymers, foamed, bioassays of phagostimulants on lamellae of 1720	Urtica urens, Myzus persicae on, settling by 3295
4612	Uric acid (see 1H-Purine-2,6,8(3H)-trione,	urticae, Aphidius
Stenocranus minutus in, natural enemies of 842	7,9-dihydro-) Uricase (see Oxidase, urate)	urticae, Eupteryx urticae, Tetranychus
stored grain in, arthropod pests of 4660	Uridylyltransferase, glucose 1-phosphate, in	Urubaxia, taxonomy of 16 usambaricus, Microtermes
stored-product pests imported into 3109 Tarsonemus pallidus in, natural enemies	Chilo suppressalis, activity during diapause of 3384	Uscana mukerjii
of 5053 Tetranychus urticae in 268	uroceriformis, Sannina Urocerus fantoma, in Hungary 3312	in India 6666 parasitising, Callosobruchus analis, in
on rose 5735	Uroleucon ambrosiae	India 6666
on tomato 4050 Thrips angusticeps in, on pea 5670	control of, biological 3343 in USA 3343	Sp. nov., description of 6018
T. tabaci in, on leek 5699 Tinea murariella in, in carpets 4113	on Ambrosia, in Oklahoma 3343 sugar-cane mosaic virus in, transmission	in Italy 6018 parasitising, Spermophagus sericeus, in
Tipula spp. in 864	of 2864	Italy 6018
Tipulidae in 5044 Tortrix viridana in, natural enemies of	Uroleucon carthami control of, insecticides for 1712	usta, Phrontosoma ustulata, Hemipepsis
3071 Trialeurodes vaporariorum in, on tomato	predators of, effects of insecticides on 1712	ustulatus, Agriotes Utah
4049	Uroleucon chondrillae, in USSR 801	Coleoptera in 793
Trogoderma inclusum in 3666 T. variabile in 3666	Uroleucon cichorii, in USSR 801 Uroleucon compositae	Cryphalus populi in, on Populus 2589 Diabrotica virgifera in 6248
Xyloterus signatus in, on Acacia 5143	control of, insecticides for 2487	Formicidae in 794 Hypera postica in 1951
Inited States of America (see also individual States)	in India 2487, 2508, 4056 on safflower	Pamphilius sitkensis in, on raspberry 939
Araneae in, book 6007 arthropod pests in, new records of 814	in Karnataka 4056 varietal preferences of 2508	Pemphigus betae in, on Populus 4093 P. populivenae in, on Populus 4093
Athous spp. in 17	on soyabean, in Madhya Pradesh 2487	Phytoseiidae in 2439 Utetheisa lotrix
biological control in 3185 Bruchidae in 1584	parasitised by, <i>Pseudendaphis</i> spp., in Karnataka 4056	food-plants of 2350
Chrysididae in 6317 Cupedidae in 2556	Uroleucon rudbeckiae in USA 1062	in India 2350 Utetheisa pulchella
foodstuffs in, pesticide residues in 3210,	on Rudbeckia amplexicaulis, in Oklahoma	control of
3211 forest entomology in 2064	1062 Urophora affinis	growth regulators for 3703 insecticides for 2132, 2133, 5511
Heteroptera in, book 6008 Hymenoptera in, book 3309, 3310, 6123	on Centaurea, and biological control using, in British Columbia 6342	utilis, Coccophagoides uvae, Diaspidiotus
insects in, book 6005	on Centaurea maculosa	uzbekistanicus, Aphidius
Ixodoidea in, book 6006 Lymantriidae in, book 5284	and biological control using in Montana 4479	vacciniella, Coleophora vaccinii, Aleuroplatus

```
vaporariorum, Trialeurodes (Asterochiton)
                                                                                                                                                                                                      Vegetable crops contd.
Tetranychidae on
Vaccinium
    Asterobemisia carpini on, in Netherlands
                                                                                                    varia, Atherigona
           3829
                                                                                                    varia, Lichenophanes (Bostrichus)
                                                                                                                                                                                                                in Kenya 1505
    Elasmostethus interstinctus on, in Turkey
                                                                                                    variabile, Trogoderma
                                                                                                                                                                                                                in Rajasthan 1361
                                                                                                   variabilis, Gynandrobrotica
variabilis, Hypera (see H. postica)
variabilis, Phytonomus (see Hypera postica)
variabilis, Planococcus (see P. lindingeri)
                                                                                                                                                                                                           Tipulidae on, in UK 5044
           4095
    Pandemis heparana on, in British
Columbia 950
                                                                                                                                                                                                           viruses in, insect transmission of 1485
                                                                                                                                                                                                       Vegetable fields, parasitic insects in, in South Carolina 2984
Vaccinium corymbosum, phenology of,
                                                                                                                                                                                                       Vegetable gardens, pest control in, integrated 1668
Vegetable marrow (see Squash)
Vegetable waste, Drosophila spp. in, in England 597, 598
correlation of Agromyza frontella
development and 4884
Vaccinium myrtillus (see Bilberry)
Vaccinium uliginosum
                                                                                                    variabilis, Sericothrips
                                                                                                    variana, Acleris
                                                                                                    varians, Anthonomus
varians, Chrysolina
     Coleophora plumbella on, in Finland
                                                                                                    varians, Myzus
varianus, Macremphytus (see M. testaceus)
variata, Thera
                                                                                                                                                                                                       England 597, 598
veletis, Gryllus
venalba, Mythimna (Pseudalctia)
venalba, Pseudaletia (see Mythimna
venalba)
venaticus, Polymerus
Vendex (see Fenbutatin oxide)
venerabilis, Agrotis
Venerabilis,
           3985
C. vacciniella on, mines of 3985
Vaccinium vitis-idaea, Coleophora
                                                                                                   varicolor, Gargara
varicornis, Leptocorisa (see L. acuta)
varicornis, Paralitomastix
variegata, Adonia (see Hippodamia
vacciniella on, mines of 3985
vacculella, Ochsenheimeria
vaga, Aceria (Eriophyes)
vaga, Eriophyes (see Aceria vaga)
vaga, Schistocerca (see S. nitens nitens)
                                                                                                          variegata)
                                                                                                    variegata, Hippodamia (Adonia)
                                                                                                                                                                                                        Venezuela
                                                                                                                                                                                                           heichtean Aculus cornutus in, on peach 6475
biological control in 3185
Danaus plexippus in 2249
Enoclerus pisinnus in 2171
Panonychus ulmi in, on peach 6475
Tetranychidae in, on cassava 6543, 6544
arillia gen poy description 6 2176
vagabundus, Dinarmus
vagans, Stethorus
                                                                                                   variegata, Sycophila
variegatus, Euscelidius
vagus, Camponotus
Vairimorpha necatrix
                                                                                                    variegatus, Zonocerus
                                                                                                    variolarius, Euschistus
                                                                                                    varius, Bostrichus (see Lichenophanes varia)
    against
         Agrotis ipsilon 3890
Heliothis virescens, on tobacco 2041
                                                                                                    varius, Leperisinus
varius, Prococcophagus
                                                                                                                                                                                                        Venilia, gen. nov., description of 2176
                                                                                                    varivestis, Epilachna
Varroa jacobsoni
         H. zea
             on sorghum 2041
on soyabean 2041
                                                                                                                                                                                                           Oecophylla longinoda 48
Philanthus triangulus 4766
                                                                                                       biology of 2612, 4440
control of 253, 3863, 4440
acaricides for 252, 2612, 3840, 3851,
6297, 6298, 6301
biological 2612
                                                                                                                                                                                                       Vespa orientalis
ventralis, Chrysopa
ventralis, Scolytus
         Plathypena scabra, on soyabean 2041
                                                                                                                                                                                                                                              1340
         Campoletis sonorensis, not infective
                                                                                                                                                                                                       ventricosus, Pediculoides (see Pyemotes
                2041
                                                                                                       heat treatment for 6300, 6301
hive destruction for 3851
physical 2612
timing of 3840
diagnosis of 4440
distribution of 253
in USSR 602, 3863
in West German, 4440
         Cardiochiles nigriceps, not infective
                                                                                                                                                                                                             ventricosus)
                                                                                                                                                                                                       ventricosus, Pyemotes (Pediculoides)
                2041
         Heliothis zea, interactions with other pathogens of 1626
                                                                                                                                                                                                        Venturia canescens
                                                                                                                                                                                                           attraction of, to host mandibular-gland secretion 6055
         Mythimna unipuncta, pathogenicity of
                3380
                                                                                                                                                                                                           hosts of, defence mechanisms of, resistance to 840, 841
    Trichoplusia ni, pathogenicity of 3686
Zelus exsanguis, dissemination of 4688
with Bacillus thuringiensis
                                                                                                        in West Germany 4440
on Apis cerana, resistance to 4803
                                                                                                                                                                                                           parasitising
                                                                                                                                                                                                            Ephestia kuehniella 840, 841
Plodia interpunctella 111
searching behaviour in 111
                                                                                                        parasitising
                                                                                                             Apis mellifera 252, 253, 2612, 6297,
              Heliothis zea, on soyabean 2041
              Plathypena scabra, on soyabean 2041
                                                                                                                 6298, 6300, 6301
in Europe 4440
in USSR 602, 3863
                                                                                                                                                                                                       Venturia inaequalis
                                                                                                                                                                                                           control of, fungicides for 5603
                                                                                                                                                                                                       in, apple, in Romania 5603
Veraline (see Parathion, with oil emulsion)
Verania discolor (see Micraspis discolor)
Verania frenata (see Micraspis frenata)
Valanga, taxonomy of, synonym of 
Cvrtacanthacris 233
                                                                                                        pretarsi in 3862
       Cyrtacanthacris
                                                                                                   pretarsi in 3862
spread of, with Apis mellifera breeding material 4804
Varroasin (see 10H-Phenothiazine, with 2,4,6-trimethyl-1,3,5-trioxane)
Vasates, on walnut, in Kirgizia 1448
vasilievi, Cacopsylla (see Psylla vasilievi)
vasilievi, Psylla (Cacopsylla)
vastatrix, Perkinsiella
Vatiga, on cassava 1023
valerianae, Macrosiphum
Valexon (see Phoxim)
                                                                                                                                                                                                      Verania frenata (see Micraspis frenata)
veranioides, Coelophora (see C. inaequalis)
verbasci, Anthrenus
verbasci, Aphis
verbasci, Campylomma
Verbenone (see Bicyclo[3.1.1]hept-3-en-2-
one, 4,6,6-trimethyl-)
verberans, Melanotus
vergarai, Scrobipalpopsis
Vermicelli, Plodia interpunctella in, in
USSR 3128
Vermont, Paraclemensia acerifoliella in on
validirostris, Pissodes
L-Valine
    in Hypena iconicalis, not found 2225
in rice, role in susceptibility to
Nilaparvata lugens of 915
in Sitophilus oryzae diet, requirement for
3269
                                                                                                    Vasiga, or cassava 1023
Vatiga illudens
in Brazil 2498
on cassava, in Brazil 2498
population dynamics of 2498
    in Spodoptera littoralis, effects of
insecticides on 4362, 4363
in Spodoptera littoralis hemolymph,
effects of DDT on 3818
                                                                                                                                                                                                       Vermont, Paraclemensia acerifoliella in, on Acer 4105
    Nilaparvata lugens feeding responses to 3413
                                                                                                    Vatiga manihotae
                                                                                                        in Colombia 1025
                                                                                                                                                                                                        vernana, Earias
                                                                                                    on cassava, in Colombia 1025

Veerabahuthrips, taxonomy of, characters
distinguishing Mychiothrips and 4729
                                                                                                                                                                                                       Vernonia, Lixus camerunus on, damage caused by 2986
Valinomycin
    in Heliothis zea, toxicity of 2111 in Trichoplusia ni cell lines, cytotoxicity
                                                                                                                                                                                                        Vernonia cinerea, Spilostethus pandurus on,
           of 5851
                                                                                                    Vegetable crops
                                                                                                                                                                                                             in India 3034
Vamidothion (O,O-dimethyl S-[2-[[1-methyl-2-(methylamino)-2-oxoethyl]thio]ethyl]
                                                                                                        arthropod pests of
in Austria 1755, 1756
                                                                                                                                                                                                        verreauxi, Rhopaea
                                                                                                                                                                                                       versicolor, Agonoscelis (see A. pubescens) versicolor, Meteorus
                                                                                                                                     2792
       phosphorothioate)
                                                                                                             in Canada
     against
                                                                                                             in Finland 1903, 4476
                                                                                                                                                                                                        versicolor, Pterostichus
                                                                                                            in Finland 1903, 4476
in Indiana 2850
in Mexico 995
in New South Wales 2161
in Quebec 4177
in Tasmania 5416
in UK 2654
in West Germany 2162
in West Malaysia 4723
hortoicetes terminifera on, in
   Aphis craccivora, on cotton 4339
A. gossypii, on cotton 4339
Dolichotetranychus floridanus, on pineapple 2983
Eriosoma lanigerum, on apple 5885
Nezara viridula, on soyabean 6520
Nilaparvata lugens, on rice 5563
Tetranychus urticae 1040
in Cales noacki, not toxic 3493
in rice, reducing reproduction by
Nilaparvata lugens 3928
resistance to, in, Nephotettix spp., in
Taiwan 908
anessa cardui (see Cynthia cardui)
         Aphis craccivora, on cotton 4339
                                                                                                                                                                                                        versicolor, Trogoderma
                                                                                                                                                                                                       versicolora, Plagiodera
versuta, Graphocephala
vertebratus, Didacus
verticillata, Eurytoma
                                                                                                                                                                                                        Verticillium lecanii
                                                                                                                                                                                                           against
                                                                                                                                                                                                                Brachycaudus helichrysi, on
Chrysanthemum 3058
Macrosiphoniella sanborni, on
Chrysanthemum 1630, 3058
Malacosoma neustria 3158
                                                                                                        Chortoicetes terminifera on, in New South
Wales 2793
                                                                                                       Wales 2772
insect pests of
in Northern Ireland 4184
in UK 4721, 6501
                                                                                                                                                                                                                Myzus persicae, on Chrysanthemum
3058, 5859
                                                                                                        m UK 4721, 6301
pest control on 995, 6501
biological 5948, 6001
book 2621, 2622
insecticides for 5255
pesticides for 1688, 2629, 2630, 2631,
Vanessa cardui (see Cynthia cardui)
vanillae, Agraulis
Vanillin (see Benzaldehyde, 4-hydroxy-3-
                                                                                                                                                                                                                Nilaparvata lugens, on rice 339, 342 pests of rice 3941
       methoxy-)
                                                                                                                                                                                                                 Trialeurodes vaporariorum, on cucumber 5662
Vapona (see Dichlorvos)
                                                                                                                                                                                                            aphid control using, effects of spore
vaporariorum, Asterochiton (see
                                                                                                                   6500
       Trialeurodes vaporariorum)
                                                                                                        pests of, in Kerala 1902
                                                                                                                                                                                                                   concentration on 5859
```

Subject Index		113
Verticillium lecanii contd.	Viburnum	Victoria contd.
culture methods for 5236	Callirhopalus bifasciatus on 5135	Formicidae in, in Eucalyptus forests
virulence of, increased by metal ions	Heliothrips haemorrhoidalis on, in	2587
5662 with dichlorvos, against, pests of rice	California 1063 Viburnum lantana, Rhagoletis cerasi on,	Labdia spp. in, on Acacia 4086
3941	oviposition by 6474	Oryzaephilus spp. in, in sultanas 3141 Plodia interpunctella in, in sultanas 314
with fenthion, against, Nilaparvata lugens,	Viburnum odoratissimum, Dialeurodes citri	Plutella xylostella in, natural enemies of
on rice 339	on, in Florida 979	5658
with phosalone, against, pests of rice	Viburnum opulus, Pyrrhalta viburni on,	safflower fields in, pollinating insects in
3941	damage caused by 503	6556
vescus, Hemicheyletia	Viburnum rafinesquianum, Pyrrhalta viburni	Scolytoidea in 5144
Vespa orientalis	on, damage caused by 503 Viburnum tinus, Aleurotuba jelinekii on, in	Tetranychus urticae in
glycogen in, reserves of 4266 in Afghanistan 3788	Italy 3565	on apple 6460
in India 378	vicarius, Oliarus	on peach 6460 victoriensis, Stolotermes
on mulberry, damage caused by 378	Vicia	victrix, Alloxysta
venom of 1340	Acyrthosiphon pisum on, in Oklahoma	Vietnam
vespertinus, Phyllobius	insect pests of, in France 3002	Chrysomelidae in 1199
Vespidae	Micromerus erivanicus on, in Turkey	Dioryctria sylvestrella in, on Pinus 516
caste differentiation in 5451	3980	Diprion spp. in, on Pinus 5166
division of labour in 5451	pest control on, insecticides for 3002	Fulgoroidea in 803
in Afghanistan 3788 in Spain 3835	Sitona lineatus on, in USA 4580	Meligethinae in 1183
in anthropogenic environments, in France	Zabrotes spp. on 1584 Vicia dasycarpa	Microlepidoptera in, on Eucalyptus 516 Nilaparvata lugens in, on rice 2381
123	Acyrthosiphon kondoi on, development of	viggianii, Telenomus
preyed on by, Syrphidae 2312	930	vigilax, Orthotylus
preying on, Spodoptera litura, in Andhra	Therioaphis trifolii on, development of	vigintiduopunctata, Thea
Pradesh 6574	930	vigintioctomaculata, Henosepilachna
sex ratio in 3846	Vicia faba	vigintioctopunctata, Epilachna (see
social behaviour in, review 5441 territoriality in 5451	Acyrthosiphon pisum on in New Zealand 4584	Henosepilachna vigintioctopunctata) vigintioctopunctata, Henosepilachna
urbanization as affecting 131	rearing of 5478	(Epilachna)
vespiformis, Synanthedon	amino acids in 1824	vigintiquattuorpunctata, Subcoccinella
Vespinae, overwintering in 78	Aphis barberae on, not developing 6017	Vigna
Vespula acadica	A. craccivora on, in India 2820	Acrocercops caeruleus on, in Uganda
in USA 1341 Vespula austriaca in colonies of, in Idaho	A. fabae on distribution pattern of 5669	6581 Catantops haemorrhoidalis on, feeding by
1341	in British Columbia 6016	5455
Vespula arenaria	in New Brunswick 6016	Vigna aconitifolia, Amsacta moorei on, in
colonies of, traffic through entrances of	phagostimulants for 1824	Rajasthan 5101
100	resistance to 2009	Vigna aconitifolia meal, diet component for
in Canada 100	arthropod pests of	Chilo partellus 2894
Vespula austriaca in USA 1341	in Egypt 4357 in Scotland 4175	Vigna aconitifolia (stored seeds), Callosobruchus analis in, oviposition by
in Vespula acadica colonies, in Idaho	DDT in, not toxic 5258	5827
1341	Gortyna xanthenes on 993	Vigna mungo
Vespula germanica	insect pests of, in France 3002	Diacrisia obliqua on
biology of 4977	Kakothrips pisivorus on, in UK 5670	amino acids in 4029
food-searching behaviour in 3296 illustrations of 4977	legume yellows virus in, infectivity of 3003	feeding by 2208 intercropped with Cajanus cajan 2488
in Australia 829, 4977	leptophos in, removing residues of 6721	Madurasia obscurella on, damage caused
in New Zealand 829, 4977	Megoura viciae on, energy budget of	by 453
in Spain 3835	4031	mung bean yellow mosaic virus in,
nest sites of 829	pest control on	whitefly transmission of 6528
nests of distinguishing <i>Polistes</i> nests and 4977	inert dusts for 4581 insecticides for 3002	Oberea brevis on, in Madhya Pradesh 2484
distinguishing Rhopalidia nests and	phoxim in, residues of 4396	Tetranychus neocaledonicus on, in
4977	Phyllotreta undulata on, feeding by 4018	Haryana 267
pest status of 4977	Sitona spp. on, in UK 6736	Vigna mungo (stored seeds)
taxonomy of, characters distinguishing	S. lineatus on	Callosobruchus analis in, oviposition by
Apis mellifera and 4977	damage caused by 6509	5827 C. chinensis in, resistance to 451
Vespula maculifrons in USA 4915	development of 4579 in USA 4580	C. maculatus in, varietal preferences of
intraspecific competition in 4915	subterranean clover red leaf virus in,	5833
Vespula rufa	symptoms of 1504	pest control in, insecticides for 5227
colour variation in 3828	triazophos in	Vigna radiata
in Spain 3828	toxicity of 2008	alfalfa mosaic virus in, in Iran 3005
nest structure in 3828 Vespula squamosa	translocation of 2008 virus control in, vector control for 5089	Amsacta moorei on, in Rajasthan 5101 Aphis craccivora on
colour preferences in 2252	Vicia faba meal, diet component for,	in Missouri 435
in USA 2252	Heliothis armigera 4330	resistance to 445, 448, 450
traps for 2252	Vicia faba (stored seeds)	bean yellow mosaic virus in, in Indonesia
Vespula vulgaris	insecticides in	442 Povinio 445-ni no
food-searching behaviour in 2251	effects on composition of 4401	Bemisia tabaci on in India 441
in Japan 78 in Spain 3835	residues of 4397 mites in, in Manitoba 3127	resistance to 444
in USSR 2251	viciae, Megoura	Callosobruchus chinensis on, resistance t
overwintering in 78	vicina, Calliphora	448, 450
population dynamics of, model 1859	vicinus, Orius	cucumber mosaic virus in, in Missouri
vespulae, Reesa	vicinus, Scapteriscus	435 Epicauta albovittata on, in Ethiopia 43:
vestus, Rubroscirus	vicinus, Sosylus Victoria	Heliothis spp. on, in Thailand 451
vesuviana, Carpomyia Vetiveria, Locusta migratoria on, in Mali	Victoria Calomela spp. in, on Acacia 4730	insect pests of
3328	Chortoicetes terminifera in 6274	effects of sowing date on 432, 436
Vetiveria nigritana, Locusta migratoria on,	Citrus in, biological control on 5949	in Bangladesh 433
development of 2321	Coleoptera in	in India 434, 440
vetusta, Orgyia	in eucalypt forests 5763	in Philippines 438, 446, 447, 449 in Sarawak 436
vetustissima, Musca	in pine forests 5763 Drosophila melanogaster in, in grape	in Sarawak 430 in Sri Lanka 429
vexator, Nupserha vibix, Sogatella	waste 4674	in West Malaysia 431
viburni, Lichtensia	D. simulans in, in grape waste 4674	varietal preferences of 449
viburni, Pyrrhalta	Ephestia figulilella in, in sultanas 3141	intercropped with Cajanus cajan 2488

3350

```
Vigna radiata contd.
                                                                                                              Vigna unguiculata contd.
                                                                                                                                                                                                                           Virginia contd.
     Ktenostreptus spp. on, in Karnataka
                                                                                                                   Graphognathus peregrinus on, oviposition
                                                                                                                                                                                                                                 Aphis spp. in, natural enemies of 4919
                                                                                                                          by 3760
                                                                                                                                                                                                                                Artogeia rapae in, on cabbage 2471,
            2010
                                                                                                                   Heliothis armigera on, in India 3418
                                                                                                                                                                                                                                       2472
     Madurasia obscurella on, damage caused
                                                                                                                                                                                                                                 Calystegia sepium in, Oidaematophorus monodactylus for biological control of
            by 453
                                                                                                                  insect pests of
                                                                                                                       in Nigeria 5104
in Sarawak 2651
     Melanagromyza spp. on
         in Thailand 439
                                                                                                                                                                                                                                        3353
          resistance to 448
                                                                                                                   intercropped with Cajanus cajan 2488
                                                                                                                                                                                                                                 Carduus spp. in, Ceuthorhynchidius
    M. sojae on, resistance to 445, 451
mung bean green mosaic virus in, in
Philippines 443
mung bean leaf crinkle virus in, in India
                                                                                                                   Ktenostreptus spp. on, in Karnataka
                                                                                                                                                                                                                                       horridus for biological control of
                                                                                                                           2010
                                                                                                                                                                                                                                        1362
                                                                                                                                                                                                                                C. acanthoides in, Ceuthorhynchidius
horridus for biological control of 275
C. nutans in, Ceuthorhynchidius horridus
                                                                                                                   Leptopiinae on, rearing of 2482
Liriomyza trifolii on, in Kenya 5415
                                                                                                                   Madurasia obscurella on, damage caused
                                                                                                                                                                                                                                       for biological control of 275
     mung bean leaf curl browning virus in, in
                                                                                                                          by 453
     Philippines 443
mung bean little leaf virus in, in
Philippines 443
                                                                                                                                                                                                                                 Dendroctonus spp. in, on Pinus 5191
D. frontalis in 558, 1210
                                                                                                                   Maruca testulalis on, in Nigeria 455,
                                                                                                                          6514
                                                                                                                                                                                                                                D. frontalis in 55
on Pinus 4091
                                                                                                                  Megalurothrips sjostedti on
in Nigeria 455, 4585, 6515
resistance to 696
screening for 3525
Ootheca mutabilis on, damage caused by
6513
    mung bean mosaic virus in, in Indonesia
                                                                                                                                                                                                                                 Dysaphis plantaginea in, natural enemies of 4919
                                                                                                                                                                                                                                 Empoasca fabae in, on lucerne 1429, 1953, 2413, 2925
    mung bean yellow mosaic virus in in India 441
                                                                                                                                                                                                                                Hellula rogatalis in, on cabbage 24'
Hypera postica in, on lucerne 4927
         in Philippines 443
resistance to 444
                                                                                                                   Ophiomyia phaseoli on
effects of cultural practices on
in West Malaysia 2479, 5671
    whitefly transmission of 6528

Nezara viridula on
in Thailand 439
resistance to 450
                                                                                                                                                                                                                                Manduca quinquemaculata in, on tobacco
                                                                                                                                                                                                                                       4609
                                                                                                                                                                                                                                M. sexta in, on tobacco 4609
Mythimna unipuncta in 4928
Myzus persicae in, on tobacco 4609
Ostrinia nubilalis in, on potato 4906
                                                                                                                   pest control on
                                                                                                                        insecticides for 455, 1686, 4585, 5104
                                                                                                                       resistant varieties for 4585
sprayers for 455
     Oberea brevis on, in Madhya Pradesh
                                                                                                                   Tetranychus cinnabarinus on, in Haryana
     Ophiomyia centrosematis on, resistance to
                                                                                                                                                                                                                                 Phyllonorycter spp. in, natural enemies of
            445
                                                                                                                          2.67
                                                                                                                                                                                                                                       3350
                                                                                                                   Thrips palmi on, effects of cultural practices on 3952
     O. phaseoli on
                                                                                                                                                                                                                                 Platynota flavedana in, natural enemies of
          in South-East Asia 435
                                                                                                                                                                                                                                       4919
    in Thailand 430
resistance to 445, 450, 451, 452
pest control on 434, 438, 440, 446
cultural measures for 432
                                                                                                                   tomato spotted wilt virus in, bioassay for
                                                                                                                                                                                                                                 Plutella xylostella in, on cabbage
                                                                                                                          2020
                                                                                                                                                                                                                                 Scolytidae in, natural enemies of
                                                                                                              Vigna unguiculata fields, parasitic insects in, in Andhra Pradesh 6310
Vigna unguiculata meal, diet component for, Chilo partellus 2894
Vigna unguiculata (stored seeds)
                                                                                                                                                                                                                                 Spodoptera exigua in, on potato 4906
                                                                                                                                                                                                                                 S. frugiperda in, on maize 4906
     insecticides for 433
timing of sprays for 44
pest management on 445
                                                                                                                                                                                                                                 Taphrocerus schaefferi in, on Cyperus esculentus 4488
                                                                                                                                                                                                                                tobacco plantations in, predatory insects in 4934
                                                                                                                  Callosobruchus analis in, oviposition by 5827
     phorate in
phorate in
metabolism of 1693
uptake of 1693
Vigna radiata fields, parasitic insects in, in
Andhra Pradesh 6310
Vigna radiata meal, diet component for,
Chilo partellus 2894
Vigna radiata (stored seeds)
Bruchidae in in Fil Lonka 429
                                                                                                                                                                                                                                 Trichoplusia ni in on cabbage 2471 on kale 4906
                                                                                                                  insect pests of, effects of y-irradiation on 1108
                                                                                                                                                                                                                                Typhlocybinae in, natural enemies of 4919
                                                                                                                   pest control in, inert dusts for 2609
Zabrotes subfasciatus in, in India 3680
                                                                                                             Zabrotes subtasciatus in, in India 36 viktorovi, Trissolcus villosa, Lagria villosa, Phaenoglyphis viminalis, Gonioctena Vinca rosea, Spiroplasma citri in 6668 vinelandicus, Microctonus Vinevarde,
                                                                                                                                                                                                                           virginicus, Reticulitermes
viridana, Tortrix
     Bruchidae in, in Sri Lanka 429
Callosobruchus analis in
                                                                                                                                                                                                                            viridans, Peucetia
                                                                                                                                                                                                                            viridescens, Eupteromalus
         development of 6666
oviposition by 5827
                                                                                                                                                                                                                            virididorsata, Dineura
                                                                                                                                                                                                                            viridigrisea, Austroasca
     C. chinensis in
                                                                                                                                                                                                                            viridinervis, Orthotylus
                                                                                                                                                                                                                            viridis, Agonoscena
viridis, Agrilus
viridis, Cicadella
          in Bangladesh
                                                                                                                   Heteroptera in, in Pennsylvania
         in Taiwan 445
in Thailand 451
                                                                                                                  Phytoseius plumifer in, effects of pesticides on 1964 predatory insects in, not affected by carbaryl 5059
     grain borer in, in Thailand 430 insecticides in, residues of 430
                                                                                                                                                                                                                           viridis, Coccus
viridis, Dichromorpha
                                                                                                             vinitor, Nysius
vinosa, Eutromula
Vinylofos (see Dichlorvos)
Viola, Tetranychus urticae on, in UK
Viola odorata, Agrotis ipsilon on 68
Virachola isocrates
control of insecticides for 5643
                                                                                                                                                                                                                           viridis, Isotoma
viridis, Lebia
viridis, Nipaecoccus
viridis, Sminthurus
        est control in, insecticides for 433, 5832
     pest control in, insectionals to
Sitophilus zeamais in, not ovipositing
2086
vigna sesquipedalis (see V. unguiculata)
Vigna sinensis (see V. unguiculata)
Vigna umbellata
                                                                                                                                                                                                                            viridissima, Palomena
                                                                                                                                                                                                                           viridula, Gastroidea (see Gastrophysa viridula)
                                                                                                                  in India 5643
in India 5643
on pomegranate, in Maharashtra 5643
     Anticarsia gemmatalis on, in Colombia
                                                                                                                                                                                                                           viridula, Gastrophysa (Gastroidea)
viridula, Nezara
            6522
                                                                                                              Virachola livia
Diacrisia obliqua on, feeding by 2208 Vigna unguiculata
                                                                                                                                                                                                                            Viron/H (see Heliothis nuclear polyhedrosis
                                                                                                                  control of, cultural 2424, 2425
in Egypt 2422, 2423, 2424, 2425
on date palm
                                                                                                                                                                                                                                   virus)
    alfalfa mosaic virus in, in Iran 3005

Amrasca biguttula on, effects of cultural practices on 3952

Aphis craccivora on
                                                                                                                                                                                                                            Viruses and virus diseases
                                                                                                                                                                                                                                of arthropods
Adoxophyes orana 4683, 5849
                                                                                                                       effects of bunch covering on 2424 effects of clean cultivation on 242
                                                                                                                                                                                                                                      Agrotis exclamationis 1864
                                                                                                                  effects of plant height on 2423
in Egypt 2422
varietal preferences of 2423
seasonal abundance of 2422
         effects of plant constituents on
effects of pubescence on 4340
                                                                                                                                                                                                                                     A. segetum 1864, 6531
Amsacta albistriga 3010
                                                                                                                                                                                                                                    Amsacta albistriga 3010
Anticarsia gemmatalis 609, 5672
Apanteles melanoscelus 1125
Apis mellifera 6299
Artogeia rapae 1497, 5856
Autographa californica 608, 610, 1124, 1627, 1629, 1639, 2001, 2617, 3168, 3690, 3692, 3694, 4060, 4066, 4680, 4681, 4682, 5235, 6679, 6688
Bacillus rossius 6673
Bombyx mori 3153, 3688, 5246, 5432, 5495, 6674
Braconidae 5244
Campoletis sonorensis 3691
Chilo spp. 3151, 5232
C. infuscatellus 5021
C. suppressalis 2619, 6683
Choristoneura fumiferana 5240, 6620, 6630
    arthropod pests of
in Egypt 4357
in Swaziland 2160
resistance to 4180
carbaryl in, toxicity of 455
                                                                                                              Virelure (see 11-Hexadecenal, (Z)-, with
                                                                                                                     (Z)-9-tetradecenal)
                                                                                                             (Z)-9-tetradecenal) virescens, Aenetus virescens, Heliothis virescens, Idioderma virescens, Nephotettix virescens, Temnochila virescens, Tetragnatha virgata, Perrisia virgifera, Diabrotica Virgin Islands arthronod pests in respective virgin Islands virginera, Diabrotica virgin Islands virgi
     Cerotoma trifurcata on, development of
            6190
     Chalcodermus aeneus on, resistance to 5105
    Coleoptera on, in Costa Rica 1011
Coreidae on, in Nigeria 454
cowpea chlorotic mottle virus in, beetle
transmission of 2007
    cowpea mosaic virus in, in Costa Rica
                                                                                                                  arthropod pests in, new records of 814 Heliothis virescens in 64
     Diacrisia obliqua on 2737
Empoasca dolichi on, in Nigeria 4585
                                                                                                              Virginia
                                                                                                                   Agrotis ipsilon in 4929
     E. kraemeri on, development of 5664
                                                                                                                   Anthonomus grandis in, on cotton 2526
```

Juojeet Inden		113
Viruses and virus diseases contd.	Vitamin E, in Acheta domesticus, role in	vulgaris, Vespula (Paravespula)
of arthropods contd.	sperm motility of 6095	vulgatissimus, Taeniothrips
Choristoneura contd. C. occidentalis 6637	Vitamins diet component for	vulnerator, Pristomerus Vulpinic acid
Chrysodeixis chalcites 4823	Dacus cucurbitae 2282	antifeedant for, Spodoptera ornithogalli,
Cydia pomonella 1628, 2110, 2956,	Dermestidae 178	on sprouting broccoli 4148
5895, 6671 Dendrolimus sibiricus 1642	Lixophaga diatraeae 1316 Rhynchophorus ferrugineus 361	in Letharia vulpina 4148
D. spectabilis 5145	in Bombyx mori diet, requirement for	waitei, Tarsonemus walkeri, Nasutitermes
Diacrisia obliqua 1640	2698	wallacei, Crossotarsus
Dynastinae 5439 Ephestia cautella 6671	in Lymantria dispar diet, effects on virus production of 4935	Walnut Allantings on in North America 1179
Epiphyas postvittana 1459	viteana, Polychrosis	Allantinae on, in North America 1178 Callaphis juglandis on, damage caused b
Erannis defoliaria 546	vitellina, Mythimna	5592
Euproctis chrysorrhoea 5863 E. similis 1104	vitellina, Tettigometra vitellinus, Plagiognathus	Chromaphis juglandicola on damage caused by 5592
forest pests 1865	Vitellogenins	in California 3991
Frankliniella fusca 1625 Galleria mellonella 2611, 4679, 4682,	in Acanthoscelides obtectus 2709, 2710 in Drosophila melanogaster 5005	Datana integerrima on, in USA 6223 Eriophyoidea on, in Kirgizia 1448
6679	hormonal regulation of synthesis of	pest control on, thresholds for 5592
Heliothis spp. 4598, 5235, 5725	759	pest management on 2932
H. armigera 608, 1636 H. punctigera 6670, 6687	in insects, review 54, 2190 in <i>Leptinotarsa decemlineata</i> fat-body,	Tenuipalpus taonicus on, in China 644: Wampi (see Clausenia lansium)
H. virescens 1629, 4060, 5852	regulation of synthesis of 2715, 4780	Warehouses
H. zea 608, 1626, 4686, 6518, 6670 Heteronychus arator 4137	in Leucophaea maderae 5005 in Locusta migratoria, hormonal	Holepyris hawaiiensis in, in Americas 3847
Hyphantria cunea 1127, 4141, 6218,	regulation of synthesis of 55	insect pests in, in USSR 1607
6728	in Manduca sexta, characterization of	Warmkea
Ichneumonidae 5244 Leucoma salicis 5863	in Sesamia nonagrioides hemolymph,	in Neotropical region 6011 taxonomy of 6011
Lymantria dispar 577, 615, 1072,	developmental changes in 4787	Wasabia japonica, Artogeia spp. on, in
1130, 1568, 1642, 1643, 2571, 3692, 3693, 4089, 4652, 4913, 4935, 4940,	in Zootermopsis angusticollis 2708 Viteus vitifoliae	Japan 1495 Washington State
5233, 5795, 5863	biology of 372	Ctenicera pruinina in, on potato 3536
L. monacha 1622, 1641, 2061, 3693	control of	Cydia pomonella in
Malacosoma neustria 1296, 5596 Mamestra brassicae 1643, 1644, 2110,	cultural 372 insecticides for 372, 1965, 5587	on apple 383, 391, 392 on pear 392
2998, 3890, 4024, 4683, 5849	soil flooding for 5058	Limonius canus in, on potato 3536
Merodon equestris 5138 Mythimna separata 5006	soil fumigants for 5588 development in 5587	Megachile rotundata in, insect enemies of 354
M. unipuncta 1128, 4684, 5854	distribution of 372	Melanoplus spp. in 820
Neodiprion lecontei 6617, 6619	EPPO data sheet on 4703	Myzus persicae in
N. sertifer 1643, 6631 Orgyia pseudotsugata 512, 605, 4685	in USA 372, 1965, 5061 in USSR 5058, 5587, 5588	on potato 4943 on sugar-beet 2490, 4590
O. thyellina 2112	on grapevine	Orgyia pseudotsugata in
Oryctes rhinoceros 3167 Panonychus citri 402	in Crimea 5587, 5588 in Florida 372	on Abies 5215, 5216 on forest trees 3102
Pelopidas mathias 2905	in Ohio 1965	on Pseudotsuga 5215
Pericallia ricini 2615, 5238	on Vitis riparia, in Pennsylvania 5061	Quadraspidiotus perniciosus in, on apple 2434
pests of glasshouse crops 2654 Pieris brassicae 3159, 6671	preyed on by, Scymnus cervicalis, in Pennsylvania 5061	Scolytus ventralis in, on Abies 2065,
Plodia interpunctella 1118, 6671	viticola, Eotetranychus	2586 Sitona lineatus in 4580
Plusia spp. 5672 P. signata 3893	vitifoliae, Daktulosphaira (see Viteus vitifoliae)	Sitona lineatus in 4580 on pea 4582
Pseudoplusia includens 608, 3527,	vitifoliae, Viteus (Daktulosphaira)	Xestia c-nigrum in 5009
3692, 3890 Rachiplusia ou 614, 3692	Vitis Ceratocapsus modestus on 2573	Wasmannia auropunctata in Canada 4428
Scirpophaga incertulas 2905	Tetranychidae on, in Chile 1445	in hothouses, in Manitoba 4428
Sesamia inferens 2905 S. nonagrioides 3150	vitis, Colomerus vitis, Empoasca	Water balance in insects, review 3283
Sibine fusca 2938	Vitis riparia, Viteus vitifoliae on, in	in mites, review 3283
Spodoptera exempta 1132	Pennsylvania 5061	Water foxtail (see Alopecurus aequalis)
S. littoralis 3149, 6671, 6686 S. litura 5238, 6684	Vitis vinifera (see Grapevine) Vitis vinifera (dried fruit) (see Raisins and	Water hyacinth (see Eichhornia crassipes) Water pollution, by insecticides, effects on
Teleogryllus spp. 5844	sultanas)	fishing of 6726
Thymelicus lineola 604 Trichoplusia ni 608, 3154, 3692, 4682	vitripennis, Nasonia vitripennis, Syrphus	Watermelon (Citrullus vulgaris) Aiolopus thalassinus on, in Pakistan 23
activation of 5849	vittata, Epicauta	Dacus cucurbitae on, development of
diagnostic manual 4139	vittata, Evibrissa (Phania)	5098 Diaphania indica on, feeding by 2477
identifying of 4692 monitoring production in cell cultures	vittata, Phania (see Evibrissa vittata) vittatum, Acalymma	Lepidosaphes ulmi on, rearing of 955
of 2617	vittatum, Asterolecanium	pest control on, tetranactin for 6714
predatory birds not affected by 615 purification of 2110	vittatus, Aphytis vittatus, Collops	Pleuroloma flavipes on 4731 watermelon mosaic virus 1 in, aphid
serological relationships of, Laurell	vittella, Earias	transmission of 1002
technique for 6671 small isometric viruses, review 3160	Voandzeia subterranea arthropod pests of, in Swaziland 2159,	watermelon mosaic virus 2 in, aphid transmission of 1002
structural properties of 4692	2160	Watermelon mosaic virus
sucrose density gradient centrifugation damaging 5854	bibliography 1007 voelkeri, Dysdercus	control of, vector control for 1485, 150
of plants	Volaton (see Phoxim)	Aphis gossypii, transmission of 1502,
aphid transmission of, review 5437	Vole, bank (see Clethrionomys glareolus)	1503
cell monolayers of vectors of 4691 closteroviruses 4690	vollenweideri, Atta volucre, Praon	courgette, in Kenya 1503 cucumber, in Japan 1502
vector reproduction as affected by	vorax, Apion	Watermelon mosaic virus 1, in,
4749 whitefly transmitted review 3148	Vriesia procera, Forcipomyia spp. in leaf axils of, in Brazil 3052	Acyrthosiphon kondoi, transmission of 1002
whitefly-transmitted, review 3148 risci, Cacopsylla (see Psylla visci)	vulgare, Armadillidium	Watermelon mosaic virus 2, in,
risci, Carulaspis	vulgaris, Asaphes	Acyrthosiphon kondoi, transmission of 1002
visci, Psylla (Cacopsylla) Viscum album, Carulaspis visci on 2083	vulgaris, Paravespula (see Vespula vulgaris) vulgaris, Pemphigus	watersi, Diparopsis
rishnou, Trabala	vulgaris, Tarsonemus	waterstoni, Cephalonomia

Wattle (see Acacia) Wheat contd. Wheat contd. Rhopalosiphum padi on contd. in Ukraine 1920 Wattle, silver (see Acacia dealbata) Contarinia tritici on, in Czechoslovakia Wax apple (see Eugenia javanica)
Waxes and waxy substances, in Attagenus Cyrtacanthacris guttulosa on, in New Schistocerca gregaria on, development of South Wales 822 2319 unicolor cuticle, developmental changes in 40 Delia coarctata on Schizaphis graminum on damage caused by 6152 development of infestation with 5525 vebsteri, Diglyphus damage caused by 302, in East Germany 2879 302, 6362 Weed control, in rice-fields, effects on Nilaparvata lugens of 341 weedi, Polyamia diazinon in, residues of 6363 distribution pattern of 5525 effects of ants on feeding by 4503 in Brazil 1014 in Kenya 1390 in Pakistan 1917 in Ukraine 1920 Dicladispa armigera on, in Punjab 3894 dimethoate in, residues of 6361 Weeds arthropod enemies of, in Canada 3354 Chrysomelidae on, in Chandigarh 5406 Diuraphis noxia on damage caused by in Ukraine 1920 3375 control of control of
biological 5933, 5935, 5936, 5938,
5940, 5945, 5946, 5999, 6001
evaluating of 5939
integrated 5933
mites on, in Nigeria 6269
Tetranychidae on, in Rajasthan 1361
Wesson's salts, in Lymantria dispar diet,
effects on virus production of 4935
West Indies, Coccidae in, natural enemies of
249 Eurygaster spp. on, effects of availability of water on 3363 varietal preferences of 2306 Sipha flava on, damage caused by 3372 E. integriceps on damage caused by 5528 distribution pattern of 2873 in Caucasus 5112 in Iran 3364, 3365 in Romania 872 in USSR 6694 Sitobion avenae on damage caused by 298, 2877, 6152, 6362 in Chile 5998 in Romania 6349 in Ukraine 1920 resistance to 6359 Forda marginata on, in India 286
Haplodiplosis marginata on in Czechoslovakia 2871 249 West Virginia varietal preferences of 2306 Sitodiplosis mosellana on, in Czechoslovakia 2871 Aphaenogaster rudis in 552
Berytinus minor in 2574
Lymantria dispar in, on Quercus 5194
Megalocoleus molliculus in, on Achillea
2069 in England 6354 in Romania 871 Thysanoptera on, in Bulgaria 301
Trigonotylus coelestialium on damage caused by 2361 effects of sowing date on 2361 wheat streak mosaic virus in, in Kansas Haplothrips tritici on, in Kazakhstan Monochamus scutellatus in, on Pinus 94 3375 Heliothis armigera on, in New South Wales 4608 Prunus serotina in, insect pests of 569 Tapinoma sessile in 552 5529 Western Australia Hysteroneura setariae on, in Brazil 1014 wheat striate mosaic virus in, in Egypt Acyrthosiphon kondoi in, on lucerne insect pests of 870 4539 in Hungary 2868 Zabrus tenebrioides on in Yugoslavia 2869 resistance to 1134 agricultural entomology in 692 Aphididae in, on Lupinus 4533 damage caused by in Ukraine 5023 2362 isofenchlorphos in, toxicity of 6349

Javesella pellucida on, in Egypt 870

Mayetiola destructor on Wheat (boiled grain), bait component for, Gryllotalpa spp. 1554 Halotydeus destructor in, on Lupinus 4533 Heliothis punctigera in, on Lupinus 453. Noctuidae in, on grain crops 6356 Rhyzopertha dominica in, in stored grain Wheat bran diet component for

Ceratitis capitata 1318

Ostrinia nubilalis 813
insecticides in, residues of 4119
leptophos in, residues of 5983
phoxim-methyl in, residues of 1113

Trichogramma released attached to flakes
of 1045 damage caused by in Ukraine 2360 297 resistance to, effects of temperature on rice in, insect pests of 6421
Scirpophaga innotata in, natural enemies of 6421
Therioaphis trifolii in, on lucerne 4539
Trogoderma variabile in, in stored grain 4666 300 Melanoplus spp. on, in USA 820 Metopolophium dirhodum on damage caused by 298 in Brazil 1014 in Chile 5998 of 1045
Wheat dwarf virus, in, Psammotettix
striatus, transmission of 3881 Western Samoa varietal preferences of 6359 biological control in 4696 Microtermes obesi on, damage caused by Wheat fields Scolytidae in 4724 estwoodii, Dicladocerus Araneae in, in Saskatchewan 299 Berytinus minor in, in Pennsylvania 2574 Miridae on, damage caused by 3374 Wheast, diet component for, Chrysopa rufilabris 4245 Mythimna separata on, varietal preferences of 5024 rufilabris 4245
Wheat (Triticum spp.)
Aceria tulipae on, in Kansas 5529
Aelia spp. on, in Iran 3365
Agrotis orthogonia on, in Kansas 6167
Aiolopus thalassinus on, in Pakistan 232
Aranhothrins obscurus on, in China 315 Carabidae in, in Yugoslavia 2869 Myzus persicae on, in Brazil 1014 Oecanthus nigricornis on, rearing of Coccinellidae in effects of insecticides on 5998 Oscinella frit on population density of 1918 damage caused by 1369 in USSR 670 entomogenous fungi in, not affected by fungicides 5524 Lonchoptera lutea in, in England 2887 Oribatei in, in USSR 1306 oviposition by 3801 Apamea sordens on, in Kazakhstan 296
aphid mummies on, identifying hosts and parasites in 3882
Aphididae on Oulema spp. on Orrbatei in, in USSR 1306
parasitic insects in
effects of burning of stubble on 2889
in Kazakhstan 3376
predatory arthropods in
effects of burning of stubble on 2889
in USSR 2870
predatory insects in, in Kazakhstan 3376
Staphylinidae in, in Belgium 295
Thysanoptera in, in Bulgaria 301
Wheat flour damage caused by 2883, 6362 feeding by 2881 in USSR 1386 Aphididae on damage caused by 2876 in Chile 4174 in England 5519 in India 286 in South Africa 6360 Aphidoidea on, in Kazakhstan 33 Aphis gossypii on, in Brazil 5527 arthropod pests of in Egypt 3371 in Romania 2849 Carpocoris spp. on, in Iran 3365 cereal chlorotic mottle virus in, infe O. melanopus on damage caused by 6158 distribution pattern of 6139 in Caucasus 2888 in North Carolina 4504 oviposition by 86 resistance to 865 868 Dermestes spp. in, development of 3616 diet component for Ostrinia nubilalis 813 mechanisms of 6157
Pemphigus vulgaris on, in Sikkim 1834 Pentatomidae on, damage caused by Tenebrio molitor 1107 pest control on 2849, 5496 aerial ULV sprays for 296 biological 1646 cereal chlorotic mottle virus in, infectivity insect pests of, damage caused by insecticides in, residues of 4119 of 867 Chloropidae on, in Ukraine 2360 Lepisma saccharina in, in Bermuda 3837 leptophos in, residues of 5983 Chlorops pumilionis on, damage caused by 3373 Chortoicetes terminifera on, in New South Wales 2793 dimethoate for 6361 granular pesticides for 670 in Bulgaria 5526 in USSR 6693 integrated 6736 thresholds for 298, 2882, 2 4502, 6362 phoxim-methyl in, residues of 1113 Tenebroides mauritanicus in, development of 6643 Cnephasia pasiuana on damage caused by 5026 forecasting infestations of 5026 C. pumicana on, in France 4502 cocksfoot mottle virus in, infectivity of Tribolium castaneum in 298, 2882, 2883, 3360, development of 1117, 6098 tunnelling by 5823 T. confusum in, effects of Penicillium on 6179 Rhopalosiphum spp. on development of infestation with 5525 distribution pattern of 5525 R. padi on damage caused by 298, 2877, 6152 in Chile 5998 Dermestes spp. in, development of 3616 diet component for Ataxia hubbardi 2036 Cofana spectra on 287 Conoderus amplicollis on, development of

N

W

W

		11-
heat germ contd.	Wheat (stored grain) contd.	Wollastoniella gatti
diet component for contd. Bactra spp. 3871	pest control in <i>contd</i> .	sp. nov., description of 6515
Cydia pomonella 2775	insecticide application methods for 2784	in Kenya 6515 preying on, Tetranychidae, in Kenya
Dermestes haemorrhoidalis 785	insecticides for 595, 2094, 5809, 6171	6515
D. peruvianus 785 Epichoristodes acerbella 501	non-uniform insecticides for 1612	womonana, Eucosma
Eurygaster integriceps 3746	protective atmospheres for 1116, 2096, 3134, 3646	Aenetus virescens in, in New Zealand
Heliothis spp. 179	shipboard fumigation for 4115	4104
H. virescens 6316 Hyphantria cunea 6728	vegetable oils for 6658	insecticides in, evaluating pick-up by
Lymantria dispar 4886	phosphine in, determining applied dosages of 4669	insects of 3139 Isoptera in
Mamestra brassicae 6143	phoxim-methyl in, residues of 1113	in USSR 118
Manduca sexta 6096 Mecas inornata 2036	predatory mites in, in Irish Republic 5926	resistance to 845
Mythimna separata 6143	Rhyzopertha dominica in	Oligomerus ptilinoides in, damage cause by 6661
Sitophilus oryzae 3269 Tyrophagus putrescentiae 6172	effects of damaged grain on 3670 in Australia 2096	pest control in 5180
in Ceratitis capitata diet, requirement for	Sitophilus spp. in	insecticides for 6662
3747	development of 771	Wood powder, diet component for,
in Lymantria dispar diet, effects on virus production of 4935	effects of humidity on 3674 effects of temperature on 3674	Dichocrocis punctiferalis 4877
Tyrophagus putrescentiae in, development	S. oryzae in	Wood products, Isoptera in, in Nigeria
of 3772 heat-germ oil	effects of damaged grain on 3670 effects of fungi on 2785	5486 woodi, Acarapis
attractant for, Trogoderma granarium	Sitotroga cerealella in	Woodland
6180	development of 4346, 6653	Cerambycidae in, in Indiana 3302
Trogoderma glabrum responses to, effects of moulting cycle on 6174	sex-pheromone production by 4117	Coleoptera in, in Czechoslovakia 5201 Drosophila spp. in, in Spain 5385
heat grain, insect pests of, effects of γ-		Elateridae in
irradiation on 1108 heat meal	storage structures for, sealing of 2095 Tenebroides mauritanicus in, development	in Indiana 3302 in Poland 802
diet component for	of 6643	Scarabaeidae in, in Indiana 3302
Ceratitis capitata 177	Tribolium castaneum in	Woodland, beech
Dichocrocis punctiferalis 4877 Pterandrus rosa 177	resistance to 5818 varietal preferences of 3671	Carabidae in, in West Germany 2745 Haplidia etrusca in, in Italy 4296
Trogoderma granarium in, development of	T. confusum in, in Chandigarh 5807	Woodland, coniferous, Formica lugubris in
1114	Wheat straw, Hemicheyletia vescus in, in Pakistan 4982	nest sites of 5146
heat middlings, insecticides in, residues of 4119	Wheat streak mosaic virus	Woodland, oak, parasitic insects in, effects insecticides on 3100
heat products, insect pests of, extracting of	control of, vector control for 5529	Woodland, pine, Chalcidoidea in, in
3668 heat shorts	Aceria tulipae, transmission of 5529	Lithuania 5395 Woodland, spruce, Chalcidoidea in, in
diet component for, Dacus dorsalis 1851	wheat, in Kansas 5529	Lithuania 5395
phoxim-methyl in, residues of 1113 heat (stored grain)	Wheat striate mosaic virus	Woodlouse (see Oniscoidea)
Acarus farris in, damage caused by 4120	Javesella pellucida, transmission of	Woodpecker, preying on, Dendroctonus frontalis 2559
Aeroglyphus robustus in, damage caused	870	Woodpecker, downy (see Picoides
by 4120 Ahasverus advena in, interactions with	wheat, in Egypt 870 whitmani, Tetrastichus	pubescens) Woodpecker, hairy (see Picoides villosus)
other pests of 4668	whytei, Staphylinochrous	Woodpecker, pileated (see Dryocopus
Alphitobius diaperinus in, in Chandigarh 5807	wiesmanni, Phygadeuon williamsi, Frankliniella	pileatus) woodroffei, Attagenus
arthropod pests of, book 1609	willingana, Proteoteras	Wormwood (see Artemisia)
bait component for, Teleogryllus commodus 3979	Willow (see Salix) Willow grack (see Salix Gracilis)	Wyoming, mosquito control in 678 X-rays
Conoderus exsul in, development of 4314	Willow, crack (see Salix fragilis) Willow, swamp (see Salix nigra)	effects of, on
Cryptolestes ferrugineus in, interactions	Willow, white (see Salix alba)	Tetranychus urticae 769, 6092
with other pests of 4668 Ephestia cautella in	Wine, bait component for, Conopia myopaeformis 1980	for detecting insects in seeds 5251
detecting of oviposition sites by 5812	winnemana, Erixestus	for evaluating salt concentrations in inse
effects of damaged grain on 3670	Winter crookneck (see Squash)	glands 3281 xanthenes, Gortyna
fumigants in, residues of 3114 Hemicheyletia tumidus in, in Pakistan	Winter squash (see Squash) Winthemia, in maize fields, in Mexico 1653	Xanthine (see 1H-Purine-2,6-dione, 3,7-
4982	Wisconsin	dihydro-)
H. vescus in, in Pakistan 4982 insect pests of, damage caused by 3111,	Choristoneura pinus in, on Pinus 6209 Chrysomela scripta in, on Populus 550,	Xanthium canadense, insect growth regular activity of extracts of 2646
5224	6148, 6206	Xanthium spinosum
insecticides in effects on composition of 4401	Delia platura in, on Phaseolus vulgaris 6230	Acanthiophilus helianthi on, in Turkey
effects on crops of 6656	Macrosteles fascifrons in, on carrot 6228	Camaromyia bullans on, in Turkey 13
residues in milling fractions of 4119	Myzus persicae in, on potato 6233	Paroxyna lingens on, in Turkey 1311
uptake from treated surfaces of 2093 Lasioderma serricorne in, in Kermadec	Neodiprion pinetum in, on Pinus 742 Nymphalis antiopa in 4651	Urophora stylata on, in Turkey 1311 Xanthium strumarium, Nupserha vexator of
Islands 2754	Oulema melanopus in, on oats 6364	and biological control using, in
Lepidoglyphus destructor in, damage caused by 4120	Paranthrene pellucida in, on Quercus 3077	Queensland 5498 Xanthogaleruca luteola
leptophos in, effects of flour production	Scolytus multistriatus in, on Ulmus 4924	in USA 538
on 5983	Wiseana	on <i>Ulmus</i> , species preferences of 538 taxonomy of, characters distinguishing
lindane in, residues of 5817 malathion in	control of integrated 350	Pyrrhalta viburni and 503
persistence of 5223	timing of 1946, 5866	Xanthogalerucella luteola, control of,
residues of, effects of moisture on 6214	embryonic development in, effects of temperature on 1946	antifeedants for 4912 Xanthogramma scutellare (see Ischiodon
mite pests of, in Irish Republic 5926	flight activity in 5866	scutellaris)
mites in, extracting of 5220	in pastures	Xanthommatin in Carausius morosus, synthesis of 373
pest control in carbon dioxide for 5225	damage caused by, models of 1949 in New Zealand 350	in Ephestia kuchniella larval integument
cottonseed oil extracts for 663	natural enemies of, in New Zealand 350	1220
fumigants for 3114, 4661 heating for 3642	Wisteria floribunda, lectins in, receptors in insects for 6335	in <i>Pieris brassicae</i> , dependence on dietar tryptophan of 1783
humidity control for 3113	Wofatox (see Parathion-methyl)	Xanthomonas, Forcipomyia spp. on,
inpact growth regulators for 500 5808	woodumi Alaurocenthus	development of 1853

```
Xanthomonas corylina, in, hazel, in Italy
                                                                                            Xyleborus dispar contd.
                                                                                                                                                                                        Xyloterus lineatus contd.
       6455
                                                                                                 control of
                                                                                                                                                                                             on Pseudotsuga menziesii, in British
                                                                                                                                                                                             Columbia 4097, 5213, 6597
parasitised by, Ipideurytoma spessivtsevi,
in Lithuania 5399
                                                                                                     cultural 6455
Xanthophylls (see Carotenes and
      carotenoids)
                                                                                                     insecticides for
Xanthophyllum, Pachygastrinae on, in Papua
New Guinea 6625
                                                                                                 in France 3461
                                                                                                 in Italy 6455
                                                                                                                                                                                             traps for 4629
                                                                                                                                                                                         Xyloterus signatus
in UK 5143
Xanthopimpla
                                                                                                 on Castanea, in France 3461
    in rice-fields, in West Bengal 906
                                                                                                 on hazel, damage caused by 6455
    parasitising, Nephopterix eugraphella, in
Punjab 1478
                                                                                            Xyleborus perforans
in Indonesia 4098
                                                                                                                                                                                             on Acacia dealbata, in England 5143
                                                                                                                                                                                         Xylotrechus quadripes
                                                                                                 in Gonystylus bancanus wood, in West
                                                                                                                                                                                             control of, integrated 500 in India 500
Xanthopimpla flavolineata
                                                                                                        Kalimantan 4098
     in Philippines 904
                                                                                            Xyleborus saxeseni control of 692 in Australia 692 in Italy 6455 in Japan 6478 on hazel, in Italy 6455
    parasitising, Cnaphalocrocis medinalis, in
Philippines 904
                                                                                                                                                                                             on coffee, in India 500
                                                                                                                                                                                         Xyphigaster pseudococci
in São Tomé and Príncipe 258
parasitising, Coccodiplosis coffeae, in São
Tomé 258
xanthorrhoea, Euproctis (Porthesia)
xanthorrhoea, Porthesia (see Euproctis
                                                                                                                                                                                        Tomé 258

Xysticus, preying on, Corythucha morrilli, in California 5502
yaconinus, Carabus
yakuba, Drosophila
Yam (Dioscorea spp.)
insect pests of, in Togo 3029
Palpifer sexnotatus on, in Japan 1533
viruses in, in Togo 3029
yam mosaic virus in, in Ivory Coast
3028
       xanthorrhoea)
xanthostomus, Campoplex
                                                                                            on loquat, in Japan 6478

Xylena, on apple, in Nova Scotia 1977

Xylene (see Benzene, dimethyl-)
Xanthumin
    in Drosophila melanogaster, growth
regulator activity of 2646
in Xanthium canadense 2646
                                                                                            Xyletinus peltatus
in USA 3136, 3137
in structural wood
xenia, Ametastegia
                                                                                                     damage caused by
in Mississippi 3136
Xenistusa hexagonalis, termite trail
                                                                                                                                          3137
      pheromones followed by 5488
Xenocatantops humilis
in India 3564
                                                                                                 parasitised by, Braconidae, in Mississippi
                                                                                                                                                                                                    3028
                                                                                                       3136
                                                                                                                                                                                         Yam chips
on tea, damage caused by 3564 Xenochalepus horni in USA 3006
                                                                                             Xylinadini, in Japan 4187
                                                                                                                                                                                             Dinoderus porcellus in, damage caused by
                                                                                            Xylocopa frontalis
in Brazil 81
                                                                                                                                                                                                   3651
                                                                                                                                                                                         insect pests of, in Nigeria 3651
Yam mosaic virus
     on soyabean, damage caused by 3006
                                                                                                 male behaviour in 81
Xenos peruensis
                                                                                             Xylocoris
    sp. nov., description of 4452
in Peru 4452
                                                                                                 in cacao beans, in Nigeria 6646
                                                                                                                                                                                                  Aphis craccivora, transmission of 3028
                                                                                                 phosphine in, toxicity of 6646
                                                                                                                                                                                                      gossypii, transmission of 3028
                                                                                            phosphine in, toxicity of 6646

Xylocoris clarus
biology of 5468
descriptions of 5468
in India 5468
preying on, Thysanoptera, in India 5468

Xylocoris flavipes
biology of 3632
in stored groundnuts, predation by 2099
prey density as affecting 5821
preving on
in Peru 4452
parasitising, Polistes lanio, in Peru 4452
Xeranobium laticeps
descriptions of 3873
development in 3873
in USA 3873
on Haplopappus tenuisectus, in Arizona
3873
                                                                                                                                                                                                  Dioscorea cayenensis, in Ivory Coast
                                                                                                                                                                                                        3028
                                                                                                                                                                                                 Rhopalosiphum maidis, transmission of 3028
                                                                                                                                                                                                 Toxoptera citricida, transmission of 3028
                                                                                                                                                                                        Yam, white (see Dioscorea rotundata) yamamai, Antheraea yangcola, Pemphigus yanonensis, Unaspis yasumatsui, Aphytis yasumatsui, Elenchus
Xestia
    flight activity in 5
in Romania 5378
                                      5378
                                                                                                 preying on
                                                                                                     Braconidae 3632
Cathartus quadricollis 2099
     larval development in 3802
Xestia c-nigrum
                                                                                                                                                                                         yasumatsui, Oligosita
yatesi, Dioryctria
    control of
                                                                                                     Oryzaephilus mercator 2099
                                                                                                     pests of stored products
Sitotroga cerealella 5821
        baits for 944
                                                                                                                                                                                         yatsumatsui, Cofana
Yeast
         insecticides for
         timing of 106
                                                                                                      Tribolium castaneum 2099
     distribution map for
                                              3303
                                                                                            Xylocoris galactinus, in Hungary
                                                                                                                                                                                             diet component for
   distribution map for 3303 flight activity in 106 in Canada 996 in Romania 106 in Spain 3388 in USA 944, 5009 in Yugoslavia 5964, 5965 larval development in 1202 on granevine
                                                                                             xylophagorum, Roptrocerus
                                                                                                                                                                                                 Anastrepha ludens
                                                                                            Xylophagus
in Nearctic region 2661
taxonomy of 2661
Xylophagus abdominalis, taxonomy of, synonym of X. cinctus 2661
                                                                                                                                                                                                 Ceratitis capitata 1318
Corcyra cephalonica 2
                                                                                                                                                                                                Corcyra cephalonica 2682
Dacus dorsalis 1851
Dermestes spp. 3616
D. haemorrhoidalis 785
D. peruvianus 785
Epichoristodes acerbella 50
Mamestra brassicae 6143
Mythimna separata 6143
Rhynchophorus ferrugineus
Spodoptera littoralis 5717
Tribolium castaneum 1117
Trichoplusia ni 5427
                                                                                           synonym of X. cinctus 2661

Xylophagus cinctus
descriptions of 2661
distribution of 2661
taxonomy of, Xylophagus abdominalis as
synonym of 2661

Xylosandrus compactus
biology of 4610
control of, integrated 500
food-plants of 4610
in India 500
    on grapevine
in California 944
in Romania 106
in Romania 106
on rape, in Manitoba 996
on rice, in Spain 3388
on sugar-beet, in Romania 106
parasitised by, Banchus flavescens, in
Manitoba 996
phenology of 5009

Xestobium rufovillosum, control of,
evaluation of 3139

xhosa, Zaomms
                                                                                                                                                                                                                                                       361
                                                                                                 food-plants of
in India 500
                                                                                                                                                                                             in
                                                                                                                                                                                                 Laodelphax striatella 4849
effects of temperature on
role in development of 4
                                                                                                 in USA (Hawaii) 4610
                                                                                                 on coffee
  hosa, Zaomma
                                                                                                                                                                                         supply of sterols by
Yeast hydrolysate
                                                                                                     damage caused by 4610
Xiphomyrmex, mandibular glands in,
secretion of 4761
Xiphydridae, in Lithuania 5387
                                                                                                     in India 500
                                                                                            Xylosandrus crassiusculus (see Xyleborus
                                                                                                                                                                                             diet component for
                                                                                                   crassiusculus)
                                                                                                                                                                                                 Chrysopa carnea 169
                                                                                            xylosteanus, Archips
xylostella, Plutella
Xyloterus domesticus, attractants for 4629
Xyloterus lineatus
                                                                                                                                                                                         Dacus cucurbitae 2282
Yeast, torula (see Candida utilis)
xuthus, Papilio
Xyela curva
in Italy 2080
on Pinus nigra, in Italy 2080
                                                                                                                                                                                         Yellowflower pepperweed (see Lepidium perfoliatum)
on Finus nigra, in Italy 2080

Xyela graeca
in Italy 2080
on Pinus nigra, in Italy 2080

Xyleborus celsus
biology of 543
descriptions of 543
in USA 543
                                                                                                aggregation pheromone in, laboratory
synthesis of 4097
attractants for 4097, 4621, 4629, 5213
control of, repellents for 1595, 6597
food-plants of, stimuli to colonisation of
                                                                                                                                                                                             cotton in, pest control on 4885
                                                                                                                                                                                             Diaphania indica in, on cucurbits 2477
                                                                                                                                                                                         Spodoptera exempta in 1172
Yew (see Taxus)
yezoensis, Oxya
Yield loss
                                                                                                        4621
                                                                                                in Canada 1595, 4097, 5213, 6597
in Finland 4102
in Norway 4621
in USSR 5399
in West Germany 4621, 4629
                                                                                                                                                                                         sassessing of 3031
data bank on 1913
pesticide use and 630
Ylangene (see Tricyclo[4.4.0.0<sup>2.7</sup>]dec-3-ene,
1,3-dimethyl-8-(1-methylethyl)-)
yoksumi, Rhopalosiphum
Youngberry, Aulacaspis rosae on, in New
Zealand 160
on Carya texana, in Missouri 543

Xyleborus crassiusculus
in USA 970
on plum, in North Carolina 970
Xyleborus dispar
Ambrosiella hartigii in, transmission of
                                                                                                 in Pseudotsuga menziesii wood, in British
                                                                                                Columbia 1595
on Abies alba, in West Germany
on Picea abies, in Norway 4621
           6455
    biology of 6455
```

uoject muex		116
fooding responses to food plant about all	Yugoslavia contd.	Zaomma cestus
feeding responses to food-plant chemicals in 4775	Plutella xylostella in, natural enemies of 2107	sp. nov., description of 4988 in South Africa 4988
in Tadzhikistan 1600 on street trees, in Ukraine 5183	Quercus borealis in, insect pests of 5793 Scolytidae in	parasitising, <i>Diaspis echinocacti</i> , in Sout Africa 4988
ponomeuta cagnagellus, taxonomy of,	natural enemies of 3568	Zaomma danzigae, taxonomy of, transferre
Yponomeuta diffluellus distinct from 6010	on <i>Ulmus</i> 3568 street trees in, insect pests of 2078	from Apterencyrtus 4189 Zaomma eriococci, taxonomy of, transferre
ponomeuta cagnatellus (see Y. cagnagellus)	wheat in, insect pests of 2869	from Apterencyrtus 4189
in Poland 6010	yunnanensis, Pemphigus Zabrotes	Zaomma lambinus, taxonomy of, Zaomma adeli as synonym of 4189
taxonomy of distinct from Y. cagnagellus 6010	food-plants of 1584 in India 4197	Zaomma xhosa sp. nov., description of 4988
lectotype for 6010	taxonomy of, food-plant preferences as	in South Africa 4988
Iponomeuta evonymellus hyperparasites of, in Finland 3569	characters for 6626 Zabrotes subfasciatus	parasitising, Gascardia destructor, in South Africa 4988
hyperparasitised by, Pteromalus bottnicus, in Finland 257	biology of 3680	Zardex (see Cyclopropanecarboxylic acid,
in Finland 257, 2264, 3569	competing with, Acanthoscelides obtectus 5829	hexadecyl ester) Zarhopalus corvinus
on Prunus padus, in Finland 2264, 3569 parasites of, in Finland 3569	gut in 5305 in Brazil 5828	in USA 5079 parasitising, <i>Pseudococcus comstocki</i> , in
parasitised by, Diadegma armillata, in	in India 3680	California 5079
Finland 257 preyed on by, Carpodacus erythrinus, in	in pea seeds, in India 3680 in <i>Phaseolus lunatus</i> seeds, in India 3680	Zatropis capitis competing with
Finland 2264 ponomeuta malinellus	in Phaseolus seeds, varietal preferences of 5828	Platygaster spp. 833 Torymus koebelei 833
biology of 1600, 5065	in Psophocarpus tetragonolobus seeds,	in USA 833
control of biological 5065, 5845	resistance to 5222 in Vigna unguiculata seeds, in India	parasitising, <i>Rhopalomyia californica</i> , in California 833
insecticides for 380, 381, 5065	3680	Zea, Aphis armoraciae on 5297
in France 5065 in USSR 380, 381, 1600	life-span in, effects of temperature on 4289	zea, Helicoverpa (see Heliothis zea) zea, Heliothis (Helicoverpa)
in West Germany 1432 on apple	lipids in, age-related changes in 4268 parasites of, in India 3680	Zea mays (see Maize) zeae, Cicadulina bipunctella (see C.
effects of plant height on 380	sterilisation of, y-irradiation for 5229	bipunctata bipunctata)
in France 5065 in Kazakhstan 381	Zabrus, biology of 6689 Zabrus tenebrioides	zeae, Diabrotica virgifera zealandica, Costelytra
on Malus, in Tadzhikistan 1600	control of, insecticides for 2362, 5023,	zealandicus, Tachinaephagus
on pear, in France 5065 preyed on by, Forficula auricularia, in	descriptions of 2362	zeamais, Sitophilus zebina, Blepharipa
West Germany 1432 Tonomeuta padellus	in East Germany 2866 in Hungary 2868	zebraea, Coryna (Mylabris) zebraea, Mylabris (see Coryna zebraea)
biology of 5065	in Italy 2362	Zectran (see Mexacarbate)
control of biological 5065	in USSR 5023 on wheat	zehntneri, Elasmus Zeiraphera diniana
insecticides for 5065	damage caused by 2362	attractants for, effects of food-plant on
on pear, in Tadzhikistan 1600	in Hungary 2868 in Ukraine 5023	responses to 4108 control of, mating disruption for 1744,
on plum, in France 5065 Paecilomyces farinosus in, pathogenicity	zacconius, Chilo Zacryptocerus, sting apparatus in 2809	3587 in Czechoslovakia 4108
of 1123	Zagloba, in West Indies 249	in Switzerland 1744, 3585, 3586, 3587
ponomeutoidea, food preferences in, evolution of 5434	Zagloba aeneipennis, taxonomy of, transferred from Scymnus 249	migration in 3587 on <i>Larix</i> , models of 3586
osilon, Agrotis (see Agrotis ipsilon) ttrium, in Delia antiqua diet, not	Zaïre Chalcidoidea in 4462	on <i>Picea abies</i> , in Czechoslovakia 4108 outbreaks of 3585
incorporated into adults 2226	Clavigralla elongata in 698	population dynamics of
uekseli, Sympiesis ugoslavia	C. shabadi in 698 zaitama, Synopeas	models of 3586 role of migration in 3585
Adoxophyes orana in, on fruit trees 5068	Zambia	Zele, taxonomy of, Zemiotes as synonym of 3245
Auchenorrhyncha in 5418 Braconidae in 3311	Agrotis spp. in on lettuce 1052	Zelinae, taxonomy of 3245
Chrysomelidae in 4860 Coleoptera in 5964	on maize 1052 foodstuffs in, pest control in 6650	Zelus cervicalis in USA 2367
Corythucha ciliata in, natural enemies of	Pinus spp. in, insect pests of 5165	reservoirs of 2367
1088 Curculio nucum in, on hazel 6454	plant protection in 3238 Scarabaeidae in, on tobacco 1052	Zelus exsanguis Pleistophora spp. in, dissemination of
Curculionidae in 4863 Dacus oleae in, on olive 987	Sitophilus zeamais in, in maize grain 5813	4688 preying on, Estigmene acraea 4688
Ephestia elutella in, natural enemies of	Sitotroga cerealella in, in maize grain	Vairimorpha necatrix in, dissemination of
E. kuehniella in, natural enemies of 2107	5813 Tenebrionidae in, on tobacco 1052	4688 Zelus renardii
Euproctis chrysorrhoea in, natural enemies of 2107, 5863	zamenopus, Acrocercops Zanthophylline	in USA 5720 in cotton fields, in Arizona 5720
Eurygaster austriaca in, on grain crops	antifeedant for	predation by 5720
E. maura in, on grain crops 2874	Hemileuca oliviae, on maize 4173 Hypera postica, on lucerne 4173	Zemiotes, taxonomy of, synonym of Zele 3245
fruit crops in, arthropod pests of 1463	Melanoplus sanguinipes, on barley	Zenaidura macroura, Lymantria dispar nuclear polyhedrosis virus in, passage
Heteroptera in 4864 leaf miners in	4173 Schizaphis graminum not affected by	through gut of 1568
on lucerne 6433 on Trifolium 6433	4173 Zanthoxylum ailanthoides	zeteki, Acanthoscelides zetterstedti, Lonchaea
Lepidoptera in 5964	Papilio xuthus on	Zetzellia mali
Leucoma salicis in, natural enemies of 5792, 5863	in Honshu 277 oviposition by 4829	in USA 2963 in apple orchards, in New York 2963
Loxostege sticticalis in 3156	Zanthoxylum monophyllum, antifeedant activity of extracts of 4173	Zeugloptera, food preferences in, evolution of 5434
Lymantria dispar in, natural enemies of 5792, 5863	Zaomma	Zeuzera pyrina
Mamestra brassicae in, on cauliflower 4024	in Ethiopian region 4988 taxonomy of 4189	biology of 1973 control of 1973
Noctuidae in 5965	Zaomma acanthococci, taxonomy of,	in France 3461
Ostrinia nubilalis in, on maize 5030, 5541	transferred from Apterencyrtus 4189 Zaomma adeli, taxonomy of, synonym of Z.	in USSR 1973 in Yugoslavia 2078
park plants in, insect pests of 2078	lambinus 4189	on Castanea, in France 3461

```
Zeuzera pyrina contd.
     on fruit trees, in Caucasus 1973
  Zicrona caerulea, in India 798
 Zimbabwe (formerly Rhodesia)
      Acanthogryllus fortipes in, on Cynodon
             6431
     agricultural entomology in 4720 Bemisia tabaci in, on tobacco 3049
     Citrus in, pest control on 4006
Clavigralla horrida in 698
cotton fields in, predatory insects in
             3041
     cotton in
     arthropod pests of 5123
pest control on 5123
Frankliniella schultzei in, on tobacco
             3049
     Myzus persicae in, on tobacco
onion in, insect pests of 6547
Oraesia spp. in 6443
Rubroscirus africanus in 5
      Spodoptera cilium in 1267
     S. exempta in 5908
S. triturata in 1267, 1749
      Thrips tabaci in, on tobacco
 tobacco in, insect pests of 4077 zimmermanni, Dioryctria
     in Delia antiqua, and in diet 2226
in Delia antiqua, and in diet 2226
in Noctua pronuba, use in chemoprinting
of 2223
ion (Zn<sup>2+</sup>), in Laodelphax striatella diet,
requirement for 3270
Zinc chloride, Yponomeuta feeding
responses to 4775
Zinc, [[1,2-ethanediylbis[carbamodithioato]]-
(2-)]- (see Zineb)
Zinc, [[(1-methyl-1,2-ethanediyl)bis[carbamodithioato]]-
dithioato][(2-)]-, homopolymer (see
Propineb)
        Propineb)
Propineo
Zinc, radioactive (*SZn), Colpoclypeus florus
labelled with 1460
zinckenella, Etiella
Zineb ([[1,2-ethanediylbis[carbamodithioato-
][(2-)]zinc)
in Entomophthora obscura, toxicity of
A136
             4136
   Zingiber officinale (see Ginger)
 Zizania aquatica, Orseolia oryzae on, in
Thailand 2909
 Ziziphus lotus, Parlatoria oleae on, in Greece 3799
 Ziziphus mauritiana, Eutetranychus orientalis on, in Haryana 267
 ziziphus, Parlatoria
Ziziphus, Fariatoria
Ziziphus sativa, Carpomyia vesuviana on, in
Turkey 1311
Zolone (see Phosalone)
zonatus, Leptoglossus
zonellus, Chilo (see C. partellus)
Zonocerus variegatus
chromosome aberrations in 62
     control of, exposing egg-pods for 4961
     eggs of
          respiration in 4961
water relations in 4961
     in Nigeria 62, 788, 4593
in Sierra Leone 1532
     okra mosaic virus in, transmission of
             5092
     on cassava, damage caused by 1532, 4593
      oviposition in 788
 Zootermopsis angusticollis
     cuticle in, hydrocarbons in 765, 766
ovarian development in, effects of group
size on 2708
Zootermopsis nevadensis, insect growth regulators in, not inducing soldier caste formation 5001
Zophodia convolutella
     descriptions of 5057
in Canada 5057
life history of 5057
life history of 5057
zozana, Rhyacionia
ZR-0233, in Ips cembrae, stimulating
production of aggregation pheromone
4238
ZR-0232
 ZR-0512 (see Hydroprene)
ZR-0515 (see Methoprene)
ZR-0587 (see 2,4-Dodecadienoic acid, 11-hydroxy-3,7,11-trimethyl-, ethyl ester,
        (2E, 4E)-)
```

```
ZR-0619 (see Triprene)
ZR-0777 (see Kinoprene)
ZR-1662 (see 2,4-Dodecadienoic acid, 10-methoxy-3,7,11-trimethyl-, ethyl ester, (2E,4E)-)
Zucchini (see Squash)
Zulia entreriana
enzymes in 5353
wing-pattern polymorphism in 5353
zwoelferi, Pyemotes
Zygaena ephialtes
attractants for 3235
in Czechoslovakia 3235
Zygina maculifrons
        control of, insecticides for 336 in India 336 on rice, in India 336
  Zygina pallidifrons
control of, insecticides for 5925
         in Irish Republic 5925
in UK 6508
         on cucumber, in UK 6508
  Zygogramma disrupta
biology of 273
in USA 273
 m OSA 273
on Ambrosia psilostachya, in Texas
Zygogramma exclamationis
biology of 3035
in Canada 3035
in USA 6260
on sunflower
         in North Dakota 6
reproduction in 3035
                                                                         6260
         on Ambrosia eriocentra, in California
5011
on sunflower, feeding by 5011
parasitised by, Doryphorophaga
doryphorae, in California 5011
predators of, in California 5011
Zygophyllum atriplicoides, Peliococcus
mesasiaticus on, in Turkmenia 4981
734-II (see Oxirane, 3-[5-(4-ethylphenoxy)-3-methyl-3-pentenyl]-2,2-dimethyl-)
738 (see Benzene, 1-[(7-ethoxy-3,7-dimethyl-2-octenyl)oxy]-4-ethyl-)
SUBJECT INDEX PREPARED BY A M WOOD
  SUBJECT INDEX PREPARED BY A M WOOD
```

Zygina maculifrons

in Manitoba 3035

Zygogramma tortuosa biology of 5011 in USA 5011

5011

CAB PUBLICATIONS AND SERVICES

Main Journals

The abstract journals form one part of a range of services in agricultural science provided by CAB, and will contain in 1981 a total of 180,000 abstracts and titles. With records derived from over 8,500 serials and many other publications, the journals constitute the only comprehensive coverage in English of the world literature on agriculture and related sciences. Readers' comments on the journals, their subject and literature coverage, are welcomed.

Specialist Journals

In response to demand, CAB has launched a new series of journals for the specialist research worker; some cover multidisciplinary topics, others deal with a single crop or product. Records for these journals are selected from the CAB database, and may be supplemented by relevant items from collaborating organizations.

Magnetic Tapes

Since 1973 (1972 in Animal Health) the journals have been produced by computer techniques. The consolidated database, now containing over 1,100,000 records and increasing by 12,000 each month, is available on magnetic tape. Complete sets of tapes or parts corresponding to selected subjects may be leased. Prices and sample tapes on request.

Online Services

The CAB database, known as CAB ABSTRACTS, is accessible over ordinary telephone lines via Lockheed's computer based DIALOG Information Retrieval Service and the ESA/RECON system and DIMDI. On-line access to CAB ABSTRACTS provides an immediate and highly efficient method of obtaining references to papers published since 1972-73. CAB ABSTRACTS is available on the SDC ORBIT system.

CAB Search Services

CAB scientists who compile the CAB database will also carry out searches for customers. The basic charge is £25 plus £0.10 per abstract retrieved. A regular monthly SDI service can be supplied for £100 per year for up to 50 references per month.

Annotated Bibliographies

3000 Annotated Bibliographies already available provide information on specific topics

Other Publications

A wide range of review articles, technical communications, reports and books are published. Write for our catalogue.

Document Delivery Service

Most original articles abstracted in CAB journals are available as photocopies. Order forms are printed in each journal or are available in bulk from CAB

Ordering Information

Subscriptions should be fully paid by 1st December for the volumes to be issued in the following year

Many journals are available at special rates to subscribers in CAB member countries; details from CAB. Member countries are listed below.

A subscription provides entitlement to monthly (or quarterly) parts plus annual indexes. Rates include packing and mailing by air post to distant countries wherever the cost can be absorbed. Orders should be sent to:

CENTRAL SALES
COMMONWEALTH AGRICULTURAL BUREAUX
FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK.

Member Countries of CAB

Bangladesh
Botswana
Canada
Cyprus
Dependent Territories

Fiji The Gambia Ghana Guyana India Jamaica Kenya

Malawi Malaysia Mauritius New Zealand Nigeria Papua New Gulnea Sierra Leone Sri Lanka Fanzania Trinidad & Tobago Uganda United Kingdom Zambia Zimbabwe

CAB ABSTRACT JOURNALS AND SERIAL PUBLICATIONS 1981

			Annual		
		No. of	rates (paper or	New subscriber	
		records	microform)		
And the second s	Frequency	per year	£ 1, 13 c	£	
Main abstract journals				45	
Agricultural Engineering Abstracts * Animal Breeding Abstracts	M M			80	
Arid Lands Abstracts	M		135		
* Dairy Science Abstracts	M	9250	140	85	
Field Crop Abstracts Forestry Abstracts	M M		175 135		
* Forest Products Abstracts	M		65	40	
* Helminthological Abstracts. A – Animal Helminthology	M		115		
B - Plant Nematology * Herbage Abstracts	Q M				
* Horticultural Abstracts		12000	190	115	
* Index Veterinarius	M	23000	195	120	
† Leisure Recreation & Tourism Abstracts. * Nutrition Abstracts & Reviews A - Human & Experimental	9	2500	40 170	100	
* Nutrition Abstracts & Reviews, A - Human & Experimental B - Livestock Feeds & Feeding	M M		115	70	
* Plant Breeding Abstracts	M. M.	12500	210	125	
Protozoological Abstracts	M		80	48	
Review of Applied Entomology, A - Agricultural B - Medical & Veterinary	M M		120 60		
* Review of Medical & Veterinary Mycology			50		
* Review of Plant Pathology	M		120	75	
Rural Development Abstracts	Q		40 3.7	24 22	
Rural Extension, Education and Training Abstracts * Soils & Fertilizers	M		170	100	
* Veterinary Bulletin	M		155		
* Weed Abstracts	M	4500	85		
* World Agricultural Economics and Rural Sociology Abstracts			135		
Primary journal					
* Bulletin of Entomological Research					
Specialist abstract journals					
Cotton & Tropical Fibres Abstracts	M	1600	29		
Crop Physiology Abstracts Faba Bean Abstracts (New in 198)	M 1) M	8000 400	85 23	51 15	
Irrigation & Drainage Abstracts		1900			
Maize Quality Protein Abstracts		120	10		
Ornamental Horticulture	M	1850		21 27	
Plant Growth Regulator Abstracts Potato Abstracts	M M		36		
Poultry Abstracts	M		60		
Rice Abstracts	M		45		
Seed Abstracts Small Animal Abstracts	M Q		50 25		
Sorghum and Millets Abstracts		1100	20	14	
Soyabean Abstracts	M	1900			
Triticale Abstracts	Q M		15	9	
Tropical Oil Seeds Abstracts		1600	25	1.5	
Serial publications					
Animal Disease Occurrence (Data tables) Bibliography of Systematic Mycology			40 7.50		
Biocontrol News & Information					
Descriptions of Pathogenic Fungi and Bacteria			10		
Descriptions of Plant Viruses Distribution Maps of Pests			5 17.50		
Distribution Maps of Plant Diseases			10		
Index of Fungi			12		
Forestry Card Title Service:	100		200		
Full Service (FA & FPA) Forestry Abstracts only (FA)	M M				
Forest Product Abstracts only (FPA)			40		
Comprehensive Pig Information Service (write for details)			100		
Index of Current Research on Pigs only				15	
Pig News and Information only Food Science and Technology Abstracts Complete			310	1 - 32	
	10 m 1 = 10 m		30.50		
Annual Cumulated Index	A		68		
A - Annual B - Biannual	M - Mon				

^{*} Available at special rates to subscribers in CAB member countries. † Formerly Rural Recreation & Tourism Abstracts.

CENTRAL SALES
COMMONWEALTH AGRICULTURAL BUREAUX
FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK.